

FEDOROV, A.F.; KOROBOV, Ye.B.; KURSHEVA, N.G.

About the so-called "systoamylase". Ferm. i spirt. prom. 30 no.1:
13-14 '64. (MIRA 17:11)

1. Voronezhskiy tekhnologicheskiy institut.

POPOV, A.N., kand. tekhn. nauk; KOROBOV, Ye.P.; TSIOLKOVSKIY, A.L.; PERFILOV, I.F., inzh., red.

[Preparing reinforced concrete pressure pipes by the vibration-pressing method; practices of the Kuybyshev Pipe Plant No.7 of the "Zhelezobeton" Trust] Izgotovlenie zhelezobetonnykh napornykh trub metodom vibropressovaniia; opyt Kuibyshevskogo trubnogo zavoda No.7 tresta "Zhelezobeton." Moskva, Gosstroiizdat. 1963. 53 p. (MIRA 17:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel'laboratorii zhelezobetonnykh trub Nauchno-issledovatel'skogo instituta betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR. (for Popov). 3. Glavnyy inzhener tresta "Zhelezobeton" (for Korobov). 4. Glavnyy inzhener laboratorii zhelezobetonnykh trub Nauchno-issledovatel'skogo instituta betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for TSionkovskiy).

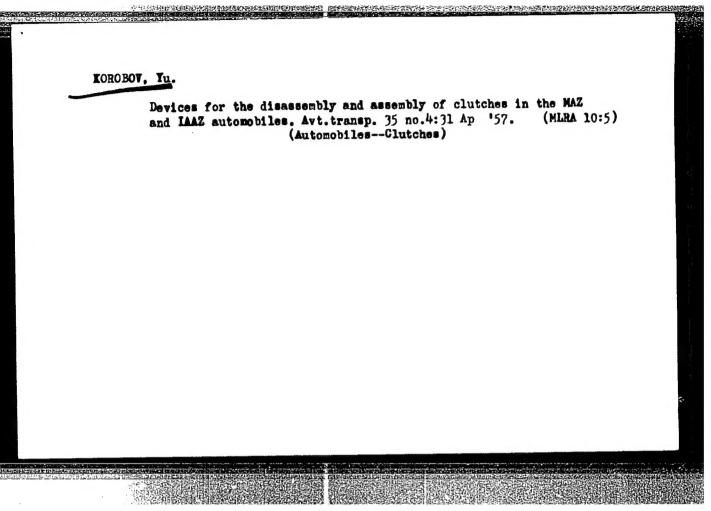
KOROBENOK, Ye.V.; TUTAYEV, L.K.

Some subgroups of a projective group in four-dimensional space.

Dokl. AN BSSR 7 no.5:293-297 My 163. (MIRA 16:12)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina. Predstavleno akademikom AN BSSR N.P. Yeruginym.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"



L 47189-66 ENT (d)/FSS-2

ACC NR: AR6020714

SOURCE CODE: UR/0274/66/000/002/A033/A033

AUTHOR: Korobov, Yu. F.; Khachaturov, A. I.

TITLE: Effect of strong interference on the input of receiving equipment

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 2A230

REF SOURCE: Tr. Uchebn. in-tov svyazi, vyp. 25, 1965, 19-26

TOPIC TAGS: signal interference, communication, ultrashort wave, frequency modulated transmitter, frequency converter

ABSTRACT: The effect of signal interference of the local frequency-modulated transmitter on the receiving channel has been investigates for combined radio reception and transmission on ultrashort waves. The relative amplification change of a converter cascade, resulting from interference, is designated as the supression coefficient. Its function depends on the errors of measuring antenna noises and on the reduction of useful time of communication in interrupted communication. Theoretical and experimental data on the permissible value of the supression coefficient are presented. Orig. art. has: 3 figures. Bibliography of 2 titles. [Translation of abstract]

SUB CODE: 17

UDC: 621. 391. 827

KOROBOV, Yu.F.

Certain systems for the synchronization of synchronous receivers with straight amplification. Elektrosviaz 15 no.6:15-21 Je 161.

(MIRA 14:6)

(Radio--Receivers and reception)

# "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824810005-3

ACC NRI AP7004249

(A)

SOURCE CODE: UR/0106/67/000/001/0031/0036

AUTHOR: Korobov, Yu. F.

ORG: none

TITLE: Traffic capacity of the frequency-telegraphy meteor-burst channel under noise and ionospheric-scatter conditions

SOURCE: Elektrosvyaz', no. 1, 1967, 31-36

TOPIC TAGS: radio telegraphy, telegraph system, meteoric burst communication

ABSTRACT: Potentialities of the meteor-burst frequency-telegraph system are determined by its noise rejection feature and the traffic capacity of the meteor-burst channel operating under noise and ionospheric-scatter conditions. Gaussian noise and Rayleigh distribution of delayed-signal amplitudes are assumed. A formula for the mean statistical error of signal reception is derived. The traffic-carrying capacity of the frequency-telegraph system depends on the instantaneous transmission rate and the parameters  $\alpha$  and  $\beta$  of signal-amplitude distribution; the latter vary with time and depend on the path, antenna types and frequency. Formulas and curves of the traffic capacity depending on the above factors are presented. Orig. art. has:

SUB CODE: 09, 17 / SUBM DATE: 11Jul66 / ORIG REF: 006 / OTH REF: 001

Card 1/1

UDC: 621.396.228.34:621.376.32

S/194/61/000/001/028/038 D216/D304

6,4400

AUTHOR: Korobov, Yu. F.

TITLE: The effect of noise on the synchronization stability

of self-oscillators

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,

no. 1, 1961, 5, abstract 1 I51 (Tr. Leningr. elek-

trotekhn. in-ta svyazi, 1959 (1960), no. 7(44),

59-76)

TEXT: The effect is studied of sinusoidal, pulse and fluctuating noise on the stability of the phase of a self-oscillator being synchronized by a sine wave. Formulae are given which permit determination of the degree of phase modulation of oscillations due to the above interference; the results of the experiment are also given. The results obtained could, to a certain extent, be used as criteria of interference-killing features in comparing the above method of synchronization with the phased antenna receiving

Card 1/2

The effect of noise ...

S/194/61/000/001/028/038 D216/D304

systems used with synchronous reception in radio communication.

Card 2/2

28786 \$/106/61/000/006/002/005 A055/A127

6.4400 (also 1031)

AUTHOR:

Korobov, Yu. F.

TITLE:

Some synchronization systems for synchronous straight-ampli-

fication receivers.

PERIODICAL:

Elektrosvyaz', no. 6, 1961, 15 - 21

TEXT: To render possible the practical application of synchronous straight-amplification receivers, it is necessary to develop frequency converters with highly linear characteristics and to work out synchronization systems ensuring a reliable phase-frequency automatic control of the synchronous heterodyne. The first of these two problems has already been dealt with in other publications [Ref. 1: International flavor of progress in electronics, "Electronics", 1960, no. 12; Ref. 2: Barlow, The Application of the Hall Effect in a Semi-Conductor. "Proc. IEE," vol. 102, No. 3, 13, 1955.] showing the possibility of using, at radio-frequencies, the frequency converters based upon the Hall effect. The present article is therefore devoted to the study of the performance of phase automatic frequency control systems in synchronous straight-amplification receivers. In the well-known automatic phase control systems described by John Costas [Ref.4:

Card 1/9

28786 S/106/61/000/006/002/005 A055/A127

Some sunchronization systems for .....

Synchronous Communications. "Proc. IRE", 1956, vol. 44], only the symmetrical lateral components are used as synchronizing signal; the carrier is not used at all, which is an essential defect, since the basic power of the AM signal is concentrated in the carrier. In the present article, the author describes two phase automatic frequency control systems, both the carrier and the symmetrical lateral bands of the received station being used as synchronizing signal in System A, and the carrier only in System B. SYSTEM A: - The signals

$$u_{sign 2} = u_{sign}(t) \cos \left( \omega_{sign} + \varphi_{sign} \right)$$

$$u_{sign 2} = u_{sign}(t) \sin \left( \omega_{sign} + \varphi_{sign} \right)$$
(1)

of the received station reach the input of two frequency converters (Converter 1 and Converter 2). The heterodyne voltage (representing, after balanced modulation, an AM oscillation without carrier) is:

$$u_{\text{het}} = U_{\text{het}} \cos \Omega_{\text{het}} t \cos \left( u_{\text{het}} t + t_{\text{het}} \right)$$
 (2)

Card 2/9

X

28786 \$/106/61/000/006/002/005 A055/A127

Some synchronization systems for ....

where  $\Omega_{\rm het}$  is the frequency of the modulated voltage supplied by an a-f oscillator. Assuming that the converter characteristics are linear with respect to the signal voltage and that their steepness varies according to the variation law of the heterodyne voltage and  $U_{\rm sign}(t) = U_{0 \ \rm sign} \left[1 + \sum_{m \ \rm sign} \cos \left(\Omega_{\rm sign} t + \psi_{\rm sign}\right)\right]$ , the a-f components of the converter anode currents can be expressed as:

 ${}^{1}\Omega_{1}^{=S} {}^{S}_{conv} {}^{U}{}_{O \text{ sign}} \left[ \cos \Omega_{\text{het}} t + \frac{1}{2} \sum_{sign} \cos \left( \Omega_{sign \text{ het}} t + \psi_{sign} \right) \right] \cos \theta$   ${}^{1}\Omega_{2}^{=S} {}^{S}_{conv} {}^{U}{}^{O}_{sign} \left[ \cos \Omega_{\text{het}} t + \frac{1}{2} \sum_{sign} \cos \left( \Omega_{sign \text{ het}} t + \psi_{sign} \right) \right] \sin \theta$ (3)

where  $S_{conv}$  is the converter steepness and  $\Omega_{sign}$  het  $=\Omega_{sign} \pm \Omega_{het}$ ,  $\theta = (\omega_{het} - \omega_{sign})t + \varphi_{het} - \varphi_{sign}$ . The converter outputs are connected to a-f filters passing the frequency  $\Omega_{het}$  and whose band is  $\Delta\Omega$ . The filters are followed by a-f control circuits. Supposing that the channels are identical, the voltages at the outputs of the a-f control circuits will be:

 $u_{1} = Ku_{\Omega} \cos \theta$   $u_{2} = Ku_{\Omega} \sin \theta$ (6)

Card 3/9

28786 \$/106/61/000/006/002/005 A055/A127

Some synchronization systems for .....

where K is the amplification factor of the converter and of the a-f control circuit, and

 $u_{\Omega} = v_{0 \text{ sign}} \left[ \cos \Omega_{\text{het}} + \frac{1}{2} \sum_{i=1}^{m} \sin \alpha_{i} \cos \left( \Omega_{\text{sign het}}^{i} + \psi_{\text{sign}}^{i} \right) \right].$ 

Voltages  $\mathbf{u}_1$  and  $\mathbf{u}_2$  are next applied to a phase detector, where they are rectified and then compared. The difference between the restified voltages gives the necessary control voltage

$$u_{contr} = KU_0 (|\cos\theta| - |\sin\theta|)$$

where  $U_0$  is the direct component formed as a result of the rectification of  $u_\Omega$ . Expanding cos $\theta$  and  $\sin\theta$  into Fourier series and neglecting small magnitudes, the author obtains the following expression for the control voltage:

$$u_{contr} \approx \frac{8K}{3M} U_0 \cos 2\theta$$
.

The optimum pass-band  $\Delta F = \Delta \Omega/2$ % of the filters is about equal to 500 cps. The optimum frequency of the a-f heterodyne oscillations is of the order of  $1_{3}$ 000 cps.

X

Card. 4/9

28786 \$/106/61/000/006/002/005 AC55/A127

Some synchronization systems for ....

Examining the behavior of the automatic phase control system in the presence of selective fadings, the author arrives at the following expression:

$$u_{contr} \approx \frac{8K}{3} \sqrt{u_{carrier}^2 + u_{lat\ 1}^2 + 2u_{carrier}^2 u_{lat\ 1} \cos \Delta \rho \cos 2(\theta_{lat} + \Delta \theta)}$$

where  $\Delta \varphi = \gamma_{\text{carrier}} - \varphi_{\text{lat}}, \Delta \theta = \arctan \frac{U_{\text{carrier}} \sin \varphi}{U_{\text{carrier}} \cos \Delta \varphi + U_{\text{lat.}}}$ .

In these formulae,  $U_{lat}$  is the amplitude of the smaller lateral component, and  $\{0\}$  lat  $= (\omega_{het} - \omega_{sign})t + \phi_{het} - \phi_{lat}$ . In the described system, the automatic control of the heterodyne is thus effected both by the carrier and by the lateral components of the received signal, which enhances the synchronization stability in the presence of selective fadings. Laboratory experiments have revealed the possibility of the practical use of this system; synchronization by the lateral components only proved, however, insufficiently reliable. SYSTEM B: - When only the carrier is used as synchronizing signal, the phase automatic frequency control system of straight-amplification receivers can also be based upon the principle

Card 5/9

28786 S/106/61/000/006/002/005 AC5**5**/A127

Some synchronization system for ....

of balanced modulation of the synchronous voltage generated by a controlled heterodyne. It is difficult, however, to use, in this case, the well-known phase automatic frequency control systems of superheterodyne receivers. The author describes a synchronization unit which differs from that of System A inasmuch as only one a-f control channel is used here. If signal voltages (1) and (2) are applied to the converter input, the a-f components of the converter anode current are expressed by Equation (3), as in System A. The separation of the converted carrier is effected by a filter with a band of several times 10 cps, tuned on frequency  $\Omega_{\text{het}}$ . The influence of components with frequencies  $\Omega_{\text{sign}}$  het can be neglected, and the voltage at the a-f control circuit output can be expressed as:

$$u_{\Omega} = KU_{0 \text{ sign}} \cos \theta \cos \Omega_{\text{net}} t$$
 (5)

To the phase detector input are applied the signal  $u_{\Omega}$  and the reference voltage (from the a-f oscillator)  $u_{\Omega\Omega}=U_{\rm het}\cos\Omega_{\rm het}$  t. A particular feature of the synchronizing signal must, however, be mentioned here: when  $\omega_{\rm het}=\omega_{\rm sign}$  ( $\theta={\rm const.}$ ), this signal represents one oscillation ( $\Omega_{\rm het}$ ), whereas when  $\omega_{\rm het}=\omega_{\rm sign}+\Delta\omega$ , two oscillations appear ( $\Omega_{\rm het}+\Delta\omega_{\rm and}\Omega_{\rm het}-\Delta\omega$ ). It is necessary

Card 6/9

28786 3/106/61/000/006/002/005 A055/A127

Some synchronization system for .....

therefore to examine more closely the operation of the phase detector. If the balanced arrangement of Figure 4 is used, the voltages applied to points ac and be will be respectively:

$$u_{\Omega_1} = u_{0\Omega} + u_{\Omega} = U_{het} (1 + n \cos \theta) \cos \Omega_{het} t$$

and

$$u_{Q_2} = u_{Q_2} - u_Q = u_{het} (1 - n \cos \theta) \cos \Omega_{het} t$$

where n =  $KU_0$  sign het For the normal operation of the phase detector, the load impedance of each diode must be very low for currents with frequency  $\Omega_{\rm het}$  and high for the frequency d $\theta$ /dt; besides, n must be smaller than one. Under these conditions, the voltage across both halves of the load will be:

$$u_{\text{load }1} \approx K_1 U_{\text{het}} (1 + n \cos \theta), \quad u_{\text{load }2} \approx K_2 U_{\text{het}} (1 - n \cos \theta)$$

where  $K_1$  and  $K_2$  are the transmission factors of the detectors. If  $K_1 = K_2$ , the phase detector output voltage, i.e., the control voltage of the automatic phase

X

Card 7/9

2<sup>8</sup>786 \$/106/61/000/006/002/005 A055/A127

Some synchronization system for ....

control system will be:

In spite of the just mentioned particularity of the synchronizing signal, this system makes it possible to synchronize the controlled heterodyne. An analysis of the noiseproof feature of the described synchronization systems will form the object of a separate article. There are 4 figures, I table and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The references to three English language publications read as follows: 1) International flavor of progress in electronics. "Electronics", 1960, no. 12, 2) Barlow. The application of the Hall Effect in a Semi-Conductor. "Proc. IEE.", vol. 102. No. 3, B., 1955; 3) John Costas, Synchronous Communications. "Proc. IRE", 1956, vol. 44, No. 12.

SUBMITTED: January 9, 1961

[Abstracter's note: The following subscripts were translated in the formulae and in the text: ((signal) translated by sign.; 2(geterodin) translated by het. (heterodyne), no (preobrazovatel') translated by conv. (converter); H (nesushcheya) translated by carrier; (b) (tokovaya) translated by lat. (lateral); y (upraverse)

Card 8/9

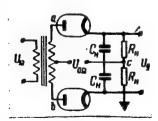
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

Some synchronization system for ...

28786 s/106/61/000/006/002/005 A055/A127

leniye) translated by contr. (control); H (nagruzka) translated by load.]

Figure 4:



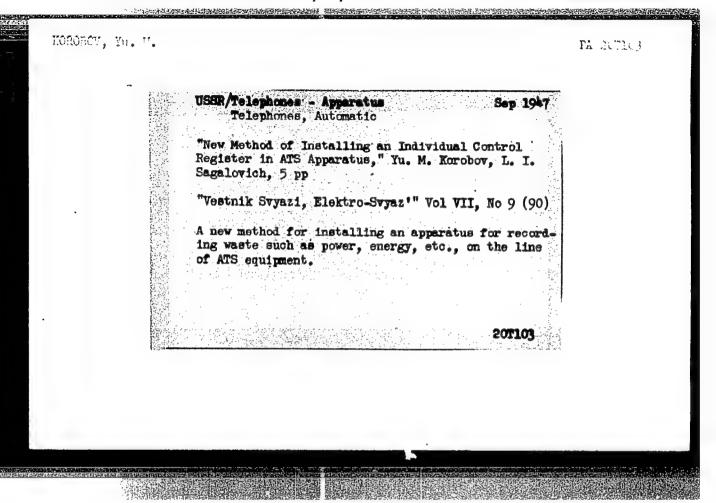
Card 9/9

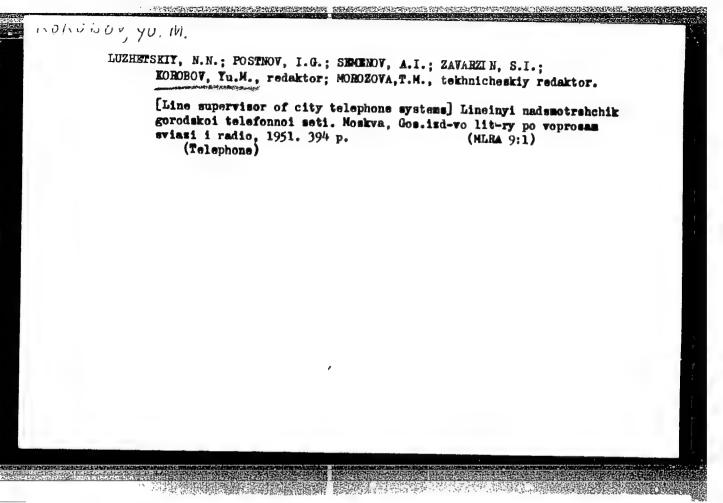
USSR/Telephones - Apparatus Feb/Mar 1946
Telephones, Public

"Maintenance of the Telephone Pay Station Economy,"
Yu. M. Korobov, A. I. Vasilevskiy, Engineers of the Moscow City Telephone Network, 1 p

"Vestnik Svyazi - Elektro Svyaz'" No 2/3 (71-72)

Discusses the maintenance of the Moscow public pay phone service, such as the use of special lubricants which would not freeze under temperatures of minus 30 degrees. The Arbat pay phone has a yearly income of 90,000 rubles and has a daily average of 350 users.





KOROBOV, Yu. M.

"Urgent Problems in the Development of the Urban Telephone Networks," Veet. Svyazi, No. 10, 1952.

Translation M-674, 27 Jul 55

Object of the Laboratory of the Moscow Urban Telephone Network

# KOROBOV, Yu.M.

[Telephone operators in municipal manual exchanges] !Telefonistka gorodskoi telefonnoi stantsii ruchnogo obslushivaniia. Moskva, Gos.izd-vo lit-ry po voprosam sviszi i radio, 1953. 100 p. (NLSA 6:9)

(Telephone--Operators' manuals)

LUZHETSKIY, N.N.; POSTNOV, I.G.; SECHOV, A.I.; ZAVARZIN, S.I.; KORO-BOV, Yu.M., redaktor; SOKOLOVA, R.Ya., tekhnicheskiy redaktor.

[City telephone system lineman] Lineinyi madsmotrehchik gorodskoi telefonnoi seti. 2. izd., ispr. i dop. Moskva, Gos. izd-vo lit-ry po voprosam sviasi i radio, 1953. 406 p. (MIRA 7:7) (Telephone)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

SHVARTSMAN, Vladimir Osipovich; KULESHOV, V.N., redaktor; KOROBOV, Yu.M. redaktor; MOROZOVA, T.M., tekhnicheskiy redaktor.

[Symmetrization of communications cables] Simmetrirovanie kabelei sviazi. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio. 1954. 37 p. (MLRA 8:8)

(Electric cables)

GUNELYA, Anton Nikolayevich; RAMENSKIY, Boris Nikolayevich; LUZHETSKIY, Mikolay Nikolayevich; GUSEV, Simon Stepanovich; MDDDAV. N. M. redaktor; SOKOLOVA, R.Ya., tekhnicheskiy redaktor.

[The regional branch telecommunication inspector's manual] Madsmotrshchik reionnoi kontory sviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1954. 388 p.[Microfilm] (MLRA 8:2)

(Telecommunication)

KOROBOV, YU.M.

USSR/Miscellaneous - Communications

Card 1/1

: Pub. 133 - 13/20

Authors

: Korobov, Yu. M., Engineer

Title

: New method of finding couples in sleeves of city telephone-cables

Periodical

Vest. svyazi 7, 30-31, July 1954

Abstract

A new induction method for rapid finding of individual couples in city telephone-cables, is briefly described. The method, developed by one of the laboratories of the Moscow Telephone Network, makes it possible to find the couple in gloves or sleeves of cables by the electrical field around the cores of the couple created by audio-frequency alternating current. The make-up of instruments used in finding couples is described.

Drawings.

Institution

...

Submitted

. . .

Korobov, Yu. M.

USSR/Miscellaneous - Telephone

Card 1/1 Pub. 133 - 14/18

Authors

: Korobov, Yu. M.

Title

: To improve the work of industrial laboratories

Periodical : Vest. svyazi 12, page 26, Dec 1954

Abstract

: Suggestions for the improvement of industrial laboratory processes, of postal and telephone offices (maintenance and repair of equipment), are presented.

Institution: The City Telephone Network, Moscow

Submitted : ...

KOKOOVY, TUIM.

BRANDT, S.B., kandidat tekhnicheskikh nauk; PCKROVSKIY, N.B., kandidat tekhnicheskikh nauk; FINKLER, I.E., inshener.

Discussion of IU.M.Korobov's article "What a telephone apparatus should be like." S.B.Brandt, I.E.Finkler, N.B.Pokrovskii. Vest. sviazi 14 no.1:28-29 Ja \*54. (MIRA 7:5)

1. Hachal nik laboratorii Ufimskogo savoda MESFF (for Brandt)

2. Dotsent VKIAS (for Pokrovskiy)

(Telephone--Apparatus and supplies) (Korobov, IU.M.)

KORO SOV, YU.M.

TEGOROV, K.P., laureat Stalinskoy premii, kendidat tekhnicheskikh nauk;
VOSTOKOV, M.N.; NECHAY, F.A.; GURVITS, Sh.F.

Remarks on IU.N.Korobov's article "What a telephone apparatus should be like." Vest.sviasi 14 no.2:30-31 F '54. (MERA 7:5)

1. Zaveduyushchiy kafedroy LHIS (for Tegorov). 2. Glavnyy inshener 3-go Glavnogo upravleniya MESEP (for Vestokov). 3. Ispolnyayushchiy obyasannost' inshenera Kipevskoy gorodskoy telefonnoy seti (for Hechay).

4. Nachal'nik profavodstvennoy laboratorii (for Gurits).

(Korobov, IU.N.) (Telephone--Apparatus and supplies)

# Impreving the work of plant laboratories. Vest sviasi 14 no. 12:26 D '54. (MIRA 8:2) 1. Nachal'nik preisvedstvenney laboratorii Meskevskey gored-skoy telefonney seti. (Engineering laboratories)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

BELIKOV, Borts Stepenovich; VARSHAVSKIT, Boris Georgiyevich; GUSEV,
Simon Stepenovich; KOROBOV, Turty Mikhallovich; PAPERNOV,
Lev Zakharovich; PATROVSKIT, Stepen Ignat'yevich, Geoceased];
VARUSHEV,M.I., redaktor; PAPINAKO,I.G., redaktor; LEDNEVA,
N.V., tekhnicheskiy redaktor

[Postal and telegraph agent] Pochtovo-telegrafnyi agent. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1955.
254 p. (MIRA 9:4)

(Postal service) (Telegraph)

KOROBOV, Yu.M.

Using the method of tagged atoms to detect damaged spots in telephone cable sheathing. Vest.sviaxi 15 no.8:10-11 Ag '55. (MIRA 8:12)

1. Wachal'nik proizvodstvennoy laboratorii UMGTS (Radioisotopes--Industrial applications)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

AL'PEROVICH, A.S., inshener; KOROBOV, Yu.M., inshener.

Present-day telephone sets. Vest.sviasi 16 no.5:26-27 Je '56.
(NLRA 9:8)

(Telephone—Apparatus and supplies)

VAL'DMAN, Edgar Earlovich; LORGBOY, Tu.M., redaktor; RIMMERGER, N.V., tekhnicheakiy redaktor

[The telegraph and telephone made interesting] Zanimatel'maia telegrafija i telefoniia. Mogkva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1957, 145 p.

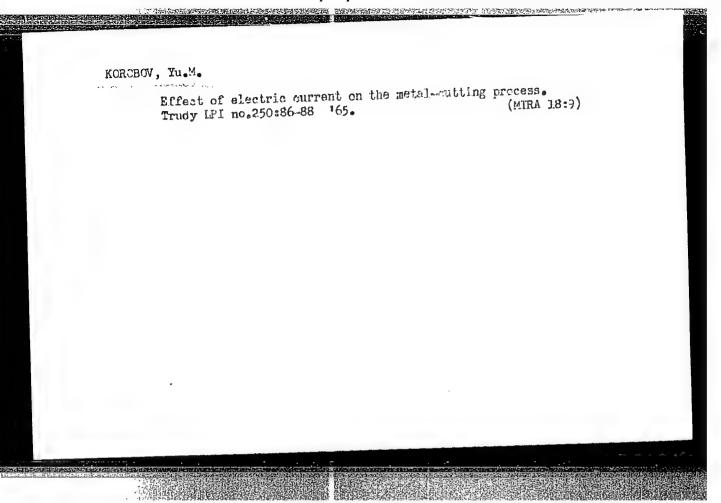
(Telephone) (Telegraph)

(Telephone) (Telegraph)

KOROBOV, Yuriw Mikhaylowich; LUZHETSKIY, N.N., red.; BERESLAVSKAYA, L.Sh., tekhn.red.

[Electric measurements in municipal telephone systems] Elektricheskie immerentia na gorodskikh telefonnykh setiakh. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1958. 255 p. (MIRA 12:1)

(Telephone) (Electric measurements)



KOROBOV, Yu.M., aspirant

Finish turning of the 45G17IU3 low-magnetic stool. Tzv. vys. ucheb.
zav.; mashinostr. no.8:182-186 '65. (MIRA 18:10)

. 9938-66 EWT (m)/T/EWP(t)/EWP(k)/EWP(b) JD/DJ

ACC NR: AT5028818 SOURCE CODE: UR/2563/65/000/250/0086/0088

AUTHOR: Korobov, Yu. M.

ORG: Laboratory of Metal Technology, Leningrad Polytechnic Institute (Laboratoriya tekhnologii metallov Leningradskogo politekhnicheskogo instituta)

TITLE: The effect of electric current on the metal cutting process

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 250, 1965. Avtomatizatsiya i tekhnologiya mashinostroyeniya (Automation and technology of machinery manufacture), 86-88

TOPIC TAGS: thermal EMF, EMF, metal cutting, metal finishing, metalworking

ABSTRACT: Large temperatures arise in the contact zone of a cutting tool and the worked piece during metalworking operations. This causes the generation of thermal EMF in the cutter-piece thermocouple. With a closed circuit (worked piece-cutter-tool) current passes through the system. The generation of thermal EMF has long been known, but this phenomenon was used mostly for the determination of the cutting temperature by the natural thermocouple method. The Laboratory of Metal Technology, LPI (Laboratoriya tekhnologii metallov LPI) carried out an investigation, the purpose of which was to determine the effect of electric current on the metal cutting process during finishing operations. Weak electrical currents were fed from an external source to the cutting zone. The effect of the interaction of the current introduced (EMF) and the thermal EMF was studied. The effect of electric current

Card 1/2

Card

L 23217-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/T/EWA(d)/EWP(v)/EWP(t)/EWP(1) IJI ACC NR: AP6013585 JD/MJW SOURCE CODE: UR/0145/65/000/008/0182/0186	)(c
AUTHOR: Korobov, Yu. M. (Aspirant)	
ORG: none  TITLE: Finishing of low-magnetic steel 45G17Yu3	6
SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 8, 1905, 182-186	
TOPIC TAGS: metal finishing, steel, alloy, metalworking machine/45G17Yu3 steel, T15K6 alloy, T3OK4 alloy	
ABSTRACT: Results described were obtained on a screw cutting machine. Samples used were 150 mm in diameter and 350 to 400 mm long. The best	-
tool materials for finishing low-magnetic steel 45Gl7Yu3 are hard alloys  T15K6 and T3OK4. (Whard alloy T3OK4 is the better at high cutting speeds  with a strict SPID system. In the opposite case, alloy T15K6 may be used.	
Finishing of 45Gl7Yu3 steel is best accomplished at cutting speeds of $v = 150$ to 170 m/min with T3OK4, and $v = 115$ to 130 m/min with T15K6 with	٠
a lateral feed of S = 0.056 to 0.1 mm/rev. and cutting depth t = 0.25/mm.  A good coolant to use is a 5% emulsion which helps to increase sta-	pri .
bility of the cutter (T30K4 by a factor of 1.5 and T15K6 by a factor of 1.7), and improves surface finish of the workpiece.	_
Two qualitatively different types of tool wear were observed: uniform,	2
Card 1/2	

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824810005-3

L 23217-66

ACC NR: AP6013585

that takes place when finishing falls within the recommended parameters, and wear in which small grooves form on the main and secondary rear surfaces of the cutter. In the latter case, the surface finish is poorer. The magnitude of the wear flat on the rear surface of the cutter, h = 0.3 mm,

when using quality cutting tips, recommended cutting conditions and tool geometry, and when the SPID system is proper for the process, class 7 surface finish can be achieved as well as high productivity. This paper was presented by Professor V. G. Podporkin, Doctor of Technical Sciences, Leningrad Polytechnic Institute. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 13, 11 / SUBM DATE: 18Jun64

Card 2/2 (1)

ACC NR: AT7005728

SOURCE CODE: UR/2563/66/000/267/0089/0092

AUTHOR: Korobov, Yu. M.

ORG: none

TITLE: Investigation of cutting speeds during finish turning

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy. no. 267, 1966. Avtomatizatsiya i tekhnologiya mashinostroyeniya (Automation and technology in the machinery industry), 89-92

TOPIC TAGS: metal cutting, cutting tool, cutting tool forces, nonmagnetic steel/ 45G17Yu3 nonmagnetic steel

ABSTRACT: The expression for the cutting force on the tool bit is written in two parts corresponding to the forces at the leading and trailing edges of the tool bit respectively. Experiments on nonmagnetic steel 45G17Yu3 were performed to determine the effects of longitudinal feed (0.05--0.2 mm/rev) and depth of cut (0.1--0.7 mm) on these two cutting force components and on the tool forces in the other two directions. These forces were measured with a three-directional force gage. The results of these experiments are presented and semi-empirical equations for the cutting forces based on these results are derived as

 $P_{\bullet} = 220F + 4.3L.$ 

and

 $P_{\mu} = 179F + 8.2L$ ;

Card 1/2

 $R_{rr} = 212F + 7.7L$ 

ACC NR: AT7005728 where F = chip area, L = cutting perimeter,  $P_{xy} = \sqrt{P_y^2 + P_z^2}$ . It is concluded that feeding rate and depth of cut have major effects on the distribution of cutting forces

at the leading or trailing edges of the tool and that both magnitudes and ratios of these quantities are important. For small t and s (finishing cuts), the forces at the trailing edge are predominant. Orig. art. has: 4 figures and 8 formulas.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 003

Card 2/2

	1:	
L 1307-66 EWT(1)/EWT(m)/EWP(w)/EPF(c)/T/EWP(t)/EWP(b)/EWA(c) LJP(c) JD/JM/GG  ACCESSION NR: AP5012550  UR/0181/65/007/005/1402/1412  AUTHOR: Finkel', V. M.; Savel'yev, A. M.; Zuyev, L. B.; Serebryakov, S. V.;  Korobov, Yu. M.; Zuyeva, I. B. 14 15  TITLE: Interaction of a crack with dislocation boundaries  SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1402-1412		
TOPIC TAGS: crack propagation crystal lattice energy, lithium fluoride, crystal imperfection 21,44,635	, . 	
ABSTRACT: This research was motivated by the lack of published data on the kinetics of interaction between a fast crack and boundaries or subboundaries having different energy levels, or data on the influence of the speed of the crack on the process of overcoming such barriers. There is likewise no information on the time necessary for the crack to break through a subboundary. The authors therefore investigated by polarization-optical and cinematrographic methods the breakthrough of slow and fast cracks through screw and inclined subboundaries with different orientations. The investigations were carried out on rock-salt and lithium-fluoride crystals. Samples measuring 0.3 x 0.6 x 2 cm with initial crack 57 mm long were tested with and without annealing. The time intervals necessary for the crack to overcome the boundary and the energy involved in this process were determined experimentally and		
Card 1/3 2		
		erite.

ACCOUNTS SERVICE PROPERTY OF THE STATE OF TH

L 1307-66

ACCESSION NR:

AP5012550

calculated theoretically. The motion of a crack was measured both in air and in an etching solution. Fast crack motion was recorded by two means, photoelectrically and by high speed photography. The methods are briefly described. Crack propagation is stopped by the subboundary for a time ranging from 65 x 10<sup>-3</sup> sec to as much as 500 x 10<sup>-3</sup> sec, depending on the angle and other factors. In the case of screw boundaries the stopping time did not exceed 16 x 10<sup>-6</sup> sec. The relation between the time necessary to break through a subboundary and the energy involved is illustrated in Fig. 1 of the Enclosure, where the continuous curve is the result of theoretical calculations and the horizontal lines are experimental values. The results confirmed the theoretical deduction that much more effort is necessary to push a crack in the etching solution than in air. Orig. art. has: 9 figures and 7 formulas.

ASSOCIATION: Sibirskiy metallurgicheskiy institut im. Sergo Orzhonikidze, Novo-kuznetsk (Siberian Metallurgical Institute)

SUBMITTED: 01Dec64

ENCL: 01

SUB CODE: SS

NR REF SOV: 004

OTHER: 007

Card 2/8

FINKEL', V.M.; SAVEL'YEV, A.M.; ZUYEV,L.B.; SERFBRYAKOV, S.V.; KOROBOV, Yu.M.; ZUYEVA, I.B.

Interaction between a crack and dislocation boundaries. Fiz. tvertela 7 no.521402-1412 My '65. (MIRA 18:5)

1. aibirskiy metallurgicheskiy institut imeni Ordzhonikidze, Novo-kuznetsk.

ACC NR: AT6036593

SOURCE CODE: UR/0000/66/000/000/0224/6225

AUTHOR: Korobova, A. A.; Ratishvili, G. G.

Card 1/4

TITLE: Changes in the motor function of athletes under conditions of restricted movement Paper presented at the Conference on Problems of Space Modicine held in

SOURCE: Konforentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsil, Moscow, 1966, 224-225

TOPIC TACS: hypodynamia, nervous system, human physiology, space physiology, myology ABS TRACT:

The ability to control movement was studied in simple motion models. These models set the task of reaching a goal by a preset program. The goal was to be attained by means of effort developed in various groups of muscles.

The effect of multi-day hypokinesia on the accuracy of execution of move ments according to a preset program was studied in athletes with different muscular activity regimes (weight-lifters and long distance runners); detailed accuracy characteristics of motion were obtained by determining the dynamics of accuracy under conditions of maximal strain (treadmill speed and endurance runs).

namography), tracing a test nine by smitting the center of gravity raphy), the "eye-hand" test, and specific and nonspecific voluntary movements.

Graphic VED FOR RELEASE; 06/14/2000 CIA-RDP86-UU5151000-namography shows that limitations of movement in weight-lifters caused the CIA-RDP86-00513R000824810005-3" coefficient of variation (CV) of error in efforts of the upper extremities to increase from 81.0% (before hypokinesia) to 134.8% (following hypokinesia); in runners the change was in the opposite direction, from 74.9% before hypokinesia to 64.9% afterwards.

Muscular effort in the form of treadmill speed and endurance runs increased the coefficient of variation in weight-lifters to 124.6% after hypokinesia. In runners, the coefficient of variation after treadmill runs was 69.8% before hypokinesia, while following the same effort, CV increased to 95. 2% after hypokinesia.

In the "eye-hand" tests, multi-day hypokinesia caused little change in the coefficient of variation of weight-lifters (18. 3% before hypokinesia and 17.3% afterwards); approximately equivalent changes were seen in runners

ACC NR: AT6036593

(coefficient of variation was 21.4% before hypokinesia and 20.1% afterwards). During actual hypokinesia, the coefficient of variation increased slightly in both weight-lifters and runners (18.6% in weight-lifters and 22.1% in runners).

A. No. 2	2: ATD Report 66-1	paratus provide better		,
CODE: 0	06 / SUBM DATE: 001	May66		
				·
• <u> </u>				
				٠.
			,	

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

त्रि भव्यक्षा

ACC NA: AT6036616	. SOURCE CODE: UR/0000/66/000/000/0300/0302
Inchaugus V A . Mirrakhis	ndshanyan, N. A.; Rusnotsov, A. G.; Baror, A. S.; nov, M. M.; Davydov, G. A.; Kalinichenko, I. R.; L. I.; Nikulina, G. A.; Tikhomirov, Yo. P.; Sokol, Ye. A.;
OxG: none	
preparation and training of Space Medicine held in SOURCE: Konferentsiya po kosmicheskoy meditsiny. Moscow, 1966, 300-302	possibility of using alpine acclimatization for the of cosmonauts [Paper prosented at the Conference on Problems Hoscow from 24-27 Hay 1966] probleman kosmicheskoy moditsiny, 1966. Problemy (Problems of space medicine); materialy konferentsii,
	h altitude physiology, alpine acclimatisation,
cosmonaut training	
ABSTRACT: Tasks of the present	
ABSTRACT: Tasks of the present	physiological and clinical investigations during the on at altitudes of 3300 to 4100 m.
ABSTRACT: Tasks of the present	physiological and clinical investigations during the

ACC NR. AT6036616

- 2. Study the influence of alpine acclimatization on human tolerance to extremal spaceflight factors.
- 3. Study the comparative resistance of alpine inhabitants, valley inhabitants, and alpinists to extremal factors.
- 4. Develop a system of alpine acclimatization for cosmonauts and issue recommendations on the application of alpine acclimatization for the preparation and training of cosmonauts and on the creation of alpine camps for cosmonauts.

Acclimatization was conducted at the alpine station of the Kirgiz State Medical Institute (Tuya-Ashu mountain pass, altitude, 3300 to 4100 m). A total of 28 male subjects were studied of whom: 11 were indigenous to alpine conditions as farmers of the Tien-Shan--Pamir region (2000 to 2500 m), 11 were valley inhabitants, and 6 were accomplished alpinists. The following indices were studied under alpine conditions and using test stands: Functional condition of the central nervous system; external respiratory and cardiovascular system function; some biochemical indices; the state of the blood coagulation and anticoagulation capacity; and in separate experiments; cerebral circulation using an electroplethysmographic method.

Card 2/4

The state of the second of the

ACC NR: AT5036616

The experiments showed that after 45 days of alpine acclimatization, human tolerance to prolonged, back-chest accelerations (8 to 10 G) was improved. This was reflected in a relative increase in the amplitude of rheoencephalograms for all subjects and consequently, improved cerebral circulation and lowered pulse rate. EKG changes indicated that the heart was undergoing less strain after alpine acclimatization. After residence in alpine conditions, a decrease in basic metabolic indices and a slight increase in arterial blood oxygen saturation was noted in alpine inhabitants during accelerations.

A study of heat tolerance showed that there was a drop in basic physiological parameters (heat accumulation and basal metabolism) after alpine acclimatization in all three groups. These changes were more pronounced in indigenous alpine inhabitants and less pronounced in alpinists.

The resistance of the organism to hypoxia before and after acclimatization was studied using two approaches; exposure to a certain "altitude ceiling" in a pressure chamber and a method of reverse respiration using a spirograph first filled with atmospheric air. In the latter case as a measure of oxygen consumption, oxygen content under the bell jar of the spirograph decreased and exhaled carbon dioxide was chemically absorbed.

Cord 3/4

KARCHAGINA, Vera Aleksandrovna; KOROBOVA, A.I., redaktor; SMIRNOV, G.I., tekhnicheskiy redaktor

[Agricultural work of pupils in children's homes; classes 1 and 2] Sel'skokhoziaistvennyi trud vospitannikov detskogo doma; I i II klassy. Moskva. Gos. uchebno-pedagog. izd-vo Ministerstva prosve-shcheniia RSFSR, 1956. 35 p. (MIRA 9:10)

TRAS. Rudol'f Aleksandrovich; KOROBOVA, A.I., red.; KOZLOVSKAYA, M.D., tekhn.red.

[School and collective farm; practices of schools in Leningrad Province] Shkola i kolkhoz; iz oputa raboty shkol Leningradskoi oblasti. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 87 p.

(Agriculture--Study and teaching)

ARTYM, M.I.; MORYGANOV, P.V.; KOROB VA, A.N.

Investigating the migration of the leuco-compounds of vat dyes.

Isv.vys.ucheb.zav.; tekh.tekst.prom. no.1:110-117 '63. (MIRA 16:4)

1. Ivanovskiy khimiko-tekhnologicheskiy institut.
(Dyes and dyeing—Textile fibers)

AYVAZ'YAN, V.G., prof.; VELIKANOV, A.L., kand. tekhn. nauk; KOROBOVA, D.N., mlad. nauchn. sotr.; FEL'DMAN, M.P., doktor tekhn. nauk; VASIL'YEV, Yu.F., red.

[Selection of power parameters and structural dimensions of hydroelectric power stations] Vybor energeticheskikh parametrov i razmerov sooruzhenii gidroelektrostantsii. Moskva, Nauka, 1965. 135 p. (MIRA 18:4)

1. Moscow. Energeticheskiy institut.

ECROBOVA, E.G., inshener.

Drills for the BIK-9 machine for boring holes in frozen ground. Promenerg, 11 no.11:25 H \*56. (MLRA 9:12)

(Boring machinery) (Frozen ground)

KOROBOVA, B.G., inshener.

Retailic cleats for fastening wires to concrete foundations. Prom. energ. 11 no.6:33-34 Je '56. (MLRA 9:9)
(Electric wiring) (Fastenings)

AUTHOR:

Korobova, E.G. (Engineer)

S0V/94-58-9-13/30

TITLE:

The erection of a crossing on a transmission line (Montazh perekhoda

liniy elektroperedachi)

PERIODICAL:

Promyshlennaya Energetika, 1958, No.9. pp. 29-30 (USSR)

ABSTRACT:

A double circuit three-phase transmission line had to be erected over 6 electrified railway tracks and 2 communication lines on the main Chelyabinsk-Moscow line. The railway line could not be shut down for several hours, two periods of 20 minutes, however, could be allowed. During the first period of 20 minutes a rope was slung between the towers and a further long rope was passed over for pulling the cables across. Rollers carrying straps were hung from the rope and whilst the conductor was being strung, a roller and strap were fixed to it every 7 or 8 metres. The conductor could then be pulled across and then the rope could be used again to support other conductors. There are 2 figures.

ASSOCIATION: Uralelektromontazh

1. Transmission lines--Design 2. Transmission lines--Equipment

3. Railroads

Card 1/1

KATS, Mark L'vovich; KOROBOVA, E.I., red.; ALEKSEYEV, P.Z., tekhn.red.

[Luminescence and electron-hole processes in photochemically colored crystals of alkali halide compounds] Liuminesteentsiis i elektronno-dyrochnye protsessy v fotokhimicheski okrashennykh kristallakh shchelochno-galoidnykh soedinenii. Seratov, Isd-vo Saratovskogo univ., 1960. 270 p.

(Alkali halide crystals)

(MIRA 14:2)

PUSHKARENKO, Vasiliy Ivanovich; KONOVALOV, A.S., red.; KOROBOVA, E.S., red.; KHLOBORDOV, V.I., tekhn.red.

[Traffic signs and signals] Dorozhnye signal'nye znaki i uka-zateli. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1961. 146 p. (MIRA 15:3)

(Traffic signs and signals)

PYATKOV, Viktor Anempodistovich; POTAFOVA, Oktyabrina Mikhaylovna; KOROBOVA, E.S., red.; KHLOBORDOV, V.I., tekhn. red.

[Learn to invetn] Uchis' izobretat'. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1962. 163 p. (MIRA 15:6) (Technological innovations)

PAVLOVA, Lyudmila Nikiforovna; KOROBOVA, E.S., red.; KHLOBORDOV, V.I., tekhn. red.

[Kuban porcelain] Kubanskii farfor. Krasnodar, Krasnodar-skoe knizhnoe izd-vo, 1961. 37 p. (MIRA 16:10) (Krasnodar--Porcelain)

EELOV, Vladimir Petrovich; KOROBOVA, E.S., red.

[New developments in major construction in the Kuban]
Novoe v kapital'nom stroitel'sive na Kubani. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1965. 43 p.

(MIRA 18t1)

1. Zamestitel' nachal'nika Glavnogo upravleniv. po

stroitel'stva v regentin Severnogo Kavkaza Ministerstva
stroitel'stva RSFSR(for Belov).

MBL'CHINSKIY, N.A., SUKHORUKOVA, L.N., ZEVELEVA, Z.A., KOROBOVA, F.M., KADISH, F.M., BERLIZEVA, K.F., ZLOTNIKOV, Y.M., BLYUMKINA, M.I., VOLOSUNOVA, N.P. LARIHA, S.P. YEVDOKIMOVA, L.N.

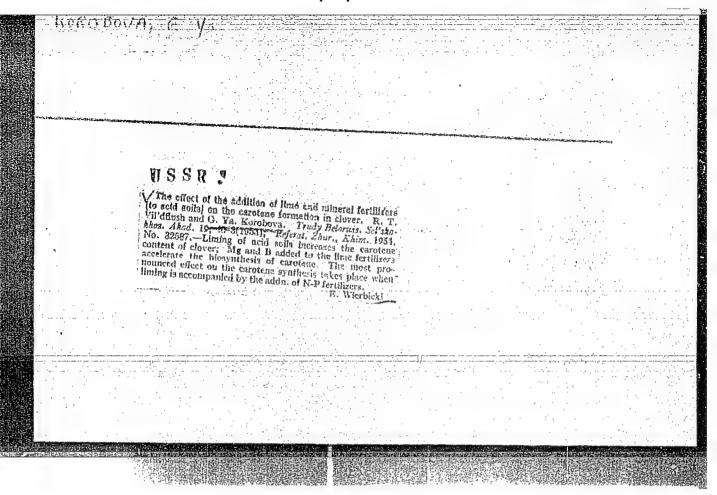
Professor Aleksandr Vasil'evich Savel'ev; on his 60th birthday. Vest.oto-rin. 20 no.6:126-127 N-D '58 (MIRA 11:12) (SAVEL'EV, ALEKSANIR VASIL'EVICH, 1898-)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

- 1. VIL'DFLUSH, R. T.- BRAGIN, A. M.- KALIKINSKIY, A. A. KOROBOVA, G. YA.
- 2. USSR (600)
- 4. White Russia Soils
- 7. Effectiveness of granular superphosphate then drilled into seed rows on loamy soils of the White Russian S.S.R. Sov.agron. 11 no. 11, 1953

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

13					
	V Effect of liming and fe tents of plants. R. T. Trudy Belovuss, Scisho-I ard, Zhun Khim 1984	Via diana and G. Ya. I	Corobova,		
	acid (1) in leaves of spiner peat-podzel soil was incres parent with 11.9 mg. % fe was N-P-K-Ca fertilizatio and N-K on a humus-rich from 31.8 to 37.3 mg. % c	the of 63%.—The aint, of the grown in vegetative ve- used by liming (53.8 mg. ( of the control). Equally u, while the applications podzol soil increased the only. Similar effects were	I ascorbic ACe stels on a % as com- ceffective of N-P-K smt. of I		
	with red clover. The ac increased when Mg and B and fertilizers. In field coin the second year after fer soils the addu. of lime can In water cultures with on Mg from the nutrient soil plants; the reverse is true the soin. Exclusion of N without any effect on the	are introduced together rapts, the effects were not tilization. On relatively decrease the conen, of I it and summer vetch, recan, decreased the amt. of when K and Ca are remo	with lime itied also less acid u clover, moval of I in the ved from		
	without any effect on the a the veteli, probably owing veteli seeds; in the oat seed	unt. of t in the young see	dlings of a creased.	na agricultur eta telak erakik eta mene	



VIL'DFLUSH, R.T., doktor sel'khoz. nauk; BRAGIN, A.M., kand. sel'khoz. nauk; GORBYLEVA, A.I., kand. sel'khoz. nauk; KOHOBOVA, G.Ya., kand. sel'khoz. nauk; LARIN, V.D., red.

> [Concise manual on mineral fertilizers] Kratkii spravochnik po mineral nym udobreniiam. Minsk, Urozhai, 1964. 237 p. (MIRA 18:10)

MISHCHENKO, N.M., inzh.; BERDICHEVSKIY, Ye.Ye., inzh.; TERMINOSYAN, N.S., inzh.; KURILOV, A.I., inzh.; POLYAKOV, M.M., inzh.; DEMIDOVICH, Ye.A., inzh.; PINDYURIN, N.I., inzh.; Prinimali uchastiye:

MALINOVSKIY, V.G.; MOLCHANOV, I.V.; MASHISHINA, M.P.; YEMCHENKO, Ye.K.; CHEREDNICHENKO, A.A.; STEPANOV, V.A.; SKACHKOV, L.N.
[deceased]; KOSHMAN, A.I.; SHCHEKLIN, V.V.; CHUBATYUK, Ye.G.; KHITOVA, Ye.Ye.; KOROBOVA, G.Z.; ROTMISTROVSKIY, B.M.; VEYSBEYN, A.D.

Increasing the efficiency of section tandem mills by the use of repeaters. Stal' 23 no.3:236-241 Mr '63. (MIRA 16:5)

1. Yenakiyevskiy metallurgicheskiy zavod.

(Rolling mills--Equipment and supplies)

KOROBOVA, I. A.

# USSR/Metals - Tin, Recovery

Dec 51

"Recovery of Tin From Mixed Bronze-Babbit Shavings," I. A. Korobova, Engr, M. L. Pertsovskiy, Cand Tech Sci, Shelyabinsk Polytech Inst

"Litey Proizvod" No 12, pp 6-8

Suggests dissolving of babbit in concd hydrochloric acid and sepn of Sn from soln by cementation with the aid of aluminum. Method permits obtaining separately Sn of 98.5-99.5% purity and bronze of original compn. Disadvantage: about 20% of Sn content in chips is not sepa in pure form but remains chemically combined with Sb and Cu.

203790

KOROBOVA, I. A.

Korobova, I. A. — "A Turning-less (Shaving-less) Method of Detection and Determination of Phosphorus in Ferroalloys." Min Higher Education USSR, Ural'sk Polytechnic Instiment S. M. Kirov, Chair of Analytical Chemistry, Swordlovsk, 1955 (Dissertation for the Degree of Candidate in Chemical Sciences)

SO: Knizhnaya Letopis', No 24, 11 June 1955, Moscow, Pages 91-104

- 一方の一方の方式の対象をあるとのできる。

TANANAYRV, N.A.; KOROBOVA, I.A.

Method for determining phosphorus in iron alloys without using shavings. Zav.lab. 22 no.8:916-917 Ag \$56. (MLRA 9:11)

 Ural\*skiy politekhnicheskiy institut imeni S.M.Kirova. (Phosphorus-Analysis) (Iron alloys-Analysis)

KOROBOVA, TA

## APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

USSR/Analysis of Inorganic Substances.

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19615

Author : I. A. Korobova

Inst : Polytechnical Institute of Uralsk
Title : Fractional Reaction of Phosphate Ion.

Orig Pub: Tr. Ural'skogo Politekhn. In-ta, 1956, sb. 57, 137 - 144.

Abstract: It is proposed to use the reaction of composition of ammonium phosphoromolybdanovanadate for the fractional detection of PO4. 1 ml of a mixture of ammonium molybdate (I) and vanadate (II) are added to 2 to 3 ml of the tested solution (0.3 g of II are dissolved in 50 ml of hot water and cooled; 2.5 ml of NHO3 (1:1) are added, all is

Card 1/2

137-58-4-8686

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 338 (USSR)

AUTHORS: Korobova, I.A., Velichko, N.G.

TITLE: Determination of Total Phosphorus Content in Metallic Granular Zinc (Free of Arsenic) by Chipless Colorimetry [ Opredeleniye

obshchego soderzhaniya fosfora v metallicheskom granulirovannom tsinke (ne soderzhashchem mysh'yaka) metodom bes-

struzhkovoy kolorimetrii ]

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 69, pp 137-142

ABSTRACT: In distinction from the method in GOST (standard) 989-41 it

is proposed to employ the reaction of ammonium phosphomolybdovanadiate formation with subsequent reduction of the Mo to a blue complex. To perform the analysis, 1 g Zn is dissolved in 8-10 cc HNO $_3$  (sp. gr. 1.2), and 3-5 drops 0.5% KMnO $_4$  solution are added to the hot solution, whereupon boiling is performed until the solution starts to cloud. Then 1-2 drops of 3%

H2O2 is added, and the whole transferred to a 10-cc cylinder, while a solution containing 5·10<sup>-7</sup> g/cc P is placed in another such cylinder. 1% ammonia and 1-2 drops H<sub>2</sub>SO<sub>4</sub> (1:3) are added

Card 1/2 to both cylinders, and the whole is diluted with water to 2 cc.

#### APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

w. .

137-58-4-8686

Determination of Total Phosphorus (cont.)

Then 0.1 cc of a mixture of ammonium molybdate and vanadate is added to each. After 5 min, 10 drops of (1:3) H2SO4, 3 drops of 1% SnCl2 solution, and 10 drops of saturated CH3COONa solution are added to each. The colors are then matched by adding water, and the P content is determined. The disagreement with GOST 989-41 was 0.00003% P.

1. Phosphorus--Determination 2. Phosphorus--Colorimetric analysis Z.G.

3. Ammonium phosphomolybdovanadiate--Chemical reactions

BALAYEV, Vasiliy Alekseyevich; PISTRAK, R.K., retsenzent; SARKISYAN, S.G., retsenzent; TROFIMUK, A.A., retsenzent; KOROBOVA, I.E., red.; ZENIN, V.V., tekhn. red.

[Devonian sediments in the central and southern regions of the Volga-Ural Province in connection with oil potential. 28 diagrams and maps] Devonskie otlozheniia tsentral'nykh i iuzhnykh raionov Volgo-Ural'skoi provintsii v sviazi s perspektivami ikh neftenosnosti. Saratov, Izd-vo Saratovskogo univ., 1961. 294 p. \_\_\_\_ 28 skhem i kart. (MIRA 15:6) (Volga-Ural region--Petroleum geology)

KERCECCH, J. F.

AUTHORS:

Kruglov, A. N., Myzova, S. K., Korobova, I. P. 57-40-31/33

TITLE:

On the Dependence of the Electric Erosion of Metals on Pulse Energy (O zavisimosti elektricheskoy erozii metallov ot energii impul'sa) (Letter to the Editor)

PERIODICAL:

Zhurnal Tekan. Fiz., 1957, Vol. 27, Nr 10, pp. 2421-2422 (USSR)

ABSTRACT:

In 1947 B. N. Zolotykh stated that the erosion of metals under the influence of current impulses in a liquid dielectric medium, with otherwise equal conditions, is directly proportional to impulse energy. The experiments, however, showed in a number of cases a deviation from the linear law. The analysis showed that this deviation exceeds toleralbe measuring errors. This is seen especially clear if one of the electrole metals possesses ferromagnetic properties. The authors show that the displacement of the maximum of the curve  $f = f_1(t_1)$  we const

increase of impulse in the direction of an increase of the duration of impulse, proves the increasing of the density of the energy reaching the electrode from the channel. This is most abrupt if one of the electrodes is a ferromagnetic material. And just in this case the greatest deviation from the linear dependence of the erosion on the impulse duration occurs. The latter proves the essential influence of the magnetic field of the current on

Card 1/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

On the Dependence of the Electric Erosion of Metals on Pulse Energy. 57-10-31/33

the formation and on the measurements of the cathode and anode spots in the case of an impulse discharge of the type investigated  $\gamma$ -erosion,  $t_1$  = duration of impulse, Wp = the energy emitted in the spark gap. There are 1 illustration and 4 Slavic references.

SUBMITTED:

March 7, 1957

AVAILABLE:

Library of Congress

Letinon, Ye. M. The Development of Electric-Spark Machining 233 In Wass Production Card 4/5	, Ye. M. The Development of Electric-Spark Machining Froduction	Ayzenshtok, V. L., and S. I., Komanar. Electric-Spark Mark- 227	Zolotykh, B. M., and I. P. Korobova. Selecting Optimum Negimos for Electric-Spark Fachining of Sintered-Carbide Alloys	Alectric-spark merical in the field of electric-spark machining and its automation are discussed, and, for instance of its and its automation are discussed, and, for instance of its sparent willitztion in industry; the fermical-economic effortivement of the process is examined, and the quipment involved is described. The relationship between the parameters of electric-spark pulses and the production characteristics (productivity, machining securesy, and surface quality) of alectric-spark method is equal sections. The section of the curvilined of electric-spark method is advanced for the curvilined of electric-spark method is some sections of the curvilined of electric-spark method is section and in the field of electric-spark method is ing mere also treated. No personalities are santialized and inferior in the field of electric-spark method is not in the field of electric-spark method is a finite of electric sections and inferior in the field of electric-spark method in the field and inferior in the field of electric-spark method in the field in the field of electric finite in the field of electric finite finite in the field of electric finite finite finite in the field of electric finite finit	WIRPOSE: This collection of articles is intended for process engineers, and technical and research personnel engaged in the working of metals.	Resp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moyzhes;	Elektrolakrovsya obrabotka metallov (Electric-Spark Fachinnic of Metals) no. 2. Moscow, izd-vo AN SSSN, 1950. 262 p. Errata alip inserted. (Series: Its: Trudy) 6,000 copies printed. Sponsoring Agency: Akademiya nauk SSSN.	Akademiya nauk SSSR. Teentral haya nauchno-issledovatel akaya laboratoriya elektricheskoy obrabotki raterialov,	PHASE I BOOK EXPLOITATION SOV/5289	
and 3. I. Komanar. Electric-Spark Mark-	Electric-Spark Mark-		Chetverikoy, S. S., and N. K. Foteyev, Electric-Spark Ma- chining of the Cutting Elements of High-Carbon-Alloy Blanking 120 Punch-Die Sets Aularyan, E. M. The Electric-Spark Method Applied to Threading 142 Enclosey, T. The Electric-Spark Method Applied to Threading 142 Enciric-Spark Method Farts of Precision Tools by the 156 Complex-Shark Method Farts by Using a Frogram-Controlled Electric-Spark Machine Parts by Using a Frogram-Controlled Alekaandrov, W. P., and B. N. Zolotykh, Selecting the Optimum Procedures for Electric-Spark Machining of Nickel- Popthum Procedure for Electric-Spark Machining of Nickel- Rase Heat-Resistant Alloys  Qorbunov, B. W. Electric-Spark Lapping Used on Flour-Mill 205	Recimes for Electric-Spark Fighthing of Sintered-Carbide Alloys Alloys Alloys Alloys Alloys Alloys Chetvarikey, S. S., and N. K. Fotsyev, Electric-Spark Na- chining of the Catting Elements of High-Carbon-Alloy Blanking Chunch-Die Sets Alloys Alekandroy, Y. Y. Kravhenko, Manufacture of Complex-Shark Machine Parts of Using a Frogram-Controlled Electric-Spark Machine Electric-Spark Fachining of Mickel- Rase Heat-Resistant Alloys Rolls Alloys	. ក់ទីក់ដី សំរាជនដើម	FURPOSE: This collection of articles is intended for process segingers and technical and research personnel engaged in the work-ing of secilis.  ONYRAGE: Problems concerning the most effective application of selective-spark sachibing adversages and the statement in the field of electric-spark sachibing and its statement in the field of electric-spark sachibing present utilization are discussed, and for intenses of the process is examined, and for intenses of the process is examined, and for sequipant involved is described. The statement of alectric-spark section in industry, the technical-economic efforts as examined. The section-space described is established. An electric-spark section of a section-space described is advanced for the curvilinear cutting of sacrials with a 20 to 30 ancron-thack wire, thus aftered by producing a finished part. Non-Soviet developments in the field of alectric-spark machinates are list references: 28 Soviet; 20 English, 10 Presch, 9 General, 20 English, 10 Presch, 10 Presc	Rasp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. N. Moythes; geen, Ed.: B. R. Lazarenko; Ed. of Publishing Houses engineers.  Ing of metals.  GOVERNOE: This collection of articles is intended for process engineses and technical and research parsonal engaged in the workly of alsocarchomic metals.  GOVERNOE: Problems concerning the most effective application of alsocarchomic metals.  Miture developant are discussed, and, for instance of the present williazation in Industry, the technical-economic effective and tite automation are discussed, and, for instance of tite present williazation in Industry, the technical-economic effective absences of the process is accurate, and wine equipment involved its described. The relationship between the parameters of the process is accurately and surface quality of elsipted agars, machining accurately and surface quality of elsipted agars, machining accurately and surface quality for elsipted agars, machining accurately producing a finished party of metals and itelians. Therefore, is are also fraction to present a sentiment of a described and surface quality in the party of a serial integers and itelians. Therefore, is a serial surface, by Education and Itelians.  Mon-Soviet developments in the field of elsenterspane, and itelians.  Mon-Soviet developments in the field of elsenters and and a surface of a serial and itelians.  Mon-Soviet developments in the field of elsenters and and a surface a	Elektrolakrovay obrabotic metallow (Electric-Spark Arallining Complete in the interest and the extension of interest and the interest and the control of interest and	Abademaya mank SSSR. Teentral manya manedno-isaledovatel'akya laboratoriaya elektricheskoy obrabotki materialos.  Aliaboratoriaya elektricheskoy obrabotki materialos.  Aliaboratoriakovaya obrabotki materialos.  Aliaboratoriakovaya obrabotki materialos.  Aliaboratoriakovaya obrabotki materialos.  Asponooring Agency: Akademiya mank SSSR.  Rasp. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House: S. M. Moythes;  Rech. Ed.: B. R. Izamrenko; Ed. of Publishing House;  Agentivity, manya faculting and the Production of Its present utilization in Industry, the technishial-economic effect presents of the process is extrined, and the equipment involved extraporates in the Production of Its presents of the process is extrined, and ecities of electric-spack manning early industry and the equipment involved extraporates and the Production of Its security and Italian. These references accompany industrial articles.  Adarran, P. R. and M. R. Foreyev, Electric-Spack Monthly and Italian.  Adarran, E. The Electric-Spack Mothod Applied to Threading 122 Adarran, Mothod Applied to Threading 123 Adarran, Mothod Applied to Threading 124 Adarran, Mothod Applied to Threading 125 Adarran, Mothod Moth	The book Exploination SOV/5289  The translation of the control of
nufacture of Stainless and High-Manganero Electric-Spark Method and S. I. Komanar. Electric-Spark Mark- ed Parts			얼	Feines for Electric-Spark Facehone. Selecting Optimus Reimes for Electric-Spark Facehone of Sintered-Carbide Alloys Alloys Ghetvarion, S. S., and N. K. Foteyev, Electric-Spark Ma- chining of the Catting Elements of High-Carbon-Alloy Blanking Punch-Die Sets Quiaryan, E. K. and W. K. Foteyev, Electric-Spark March Englodovy Fo. W. Manufacture of Precision Tools by the Encircl-Spark Machine Parts by Using a Frogram-Controlled Complex-Shaped Machine Parts by Using a Frogram-Controlled Electric-Spark Machine Parts by Using a Frogram-Controlled Alekamadrov, W. P., and B. N. Zolotykh, Selecting the Optimus Procedures for Electric-Spark Machining of Mickel- Rase Heat-Resistant Alloys	OWTRANCE: Problems concerning the most effective Application of their developments in the field of electric-spark actioning and its automation are discussed, and, for interacts of first present utilization in industry, the technical-economic effortiveness of the process is examined, and the equipment involved is described. The relationship between the parameters of electric-spark pulses and the production characteristics (productivity, machining acciracy, and auricac quality) of electric-spark anthining acciracy, and auricac quality producing a finished spark and a serial acciracial auricacy of electric-spark anthining acciracy, and an electric-spark machining acciracy are also treated. We presentablished are antitioned. There is a legister development in the field of electric-spark machining are also treated. We presentablished are antitioned. There is grandling of she factric-spark machining of the Gutting Elements of Migh-Carbon-Alloy Blanking landling landling of the Gutting Elements of Migh-Carbon-Alloy Blanking landling lan	MURPOSE: This collection of articles is intended for process sngit- ing of metals.  OVVERAGE: Problems concerning the most effective application of electric-spark methods in industry are reviewed plossition fature developments in the field of electric-spark machining and its automation are discussed, and the edupment involved is described. The relationship between the parameters of secret-spack pliess and the production chanters is first a described. The relationship between the parameters of adestricy machining secures, and surface quality) of electric- described. The relationship between the parameters of adestricy machining acument, and surface quality) of electric- described. The relationship between the parameters of adestricy machining acument, and surface quality) of electric- described for the curvilance outting of materials with a 20 advantaged for the curvilance curving of materials with a 20 advantaged for the curvilance in the field of electric-spark machin- ing are also reside trices; No presents in the field of electric-spark machin- and italian. These references accompany individual articles. Alloys  Captaral, B. M., and I. P. Korobova. Selecting Optimum Neighness for Electric-Spark machining of Sintered-Carbide Alloys  Chetwertkoy, S. S., and N. K. Poteyev. Electric-Spark Ma- chining of the Cutting Elements of Migh-Carbon-Alloy Blanking  Alloys  Aniaryan, E. K. and Y. L. Kravshenke. Manufacture of Complexed proper Spark Machine Partin oy Using a Progran-Controlled  Electric-Spark Machine Partin oy Using a Progran-Controlled  Alekaandroy, W. P., and B. M. Zolotykh, Selecting the Depth of Electric-Spark Machine Partin oy Using a Progran-Controlled  Alekaandroy, W. P., and B. M. Zolotykh, Selecting of Nickel- Depth of Electric-Spark Machine Partin oyletykh, Selecting of Nickel- Depth of Electric-Spark Machine Partin-Spark Machine Partin oyletykh, Selecting of Nickel- Depth of Nicke	Resp. Ed.: B. W. Lezarenko; Ed. of Publishing House: S. W. Moythes; Fech. Ed.: A. P. Ousera.  Fungode: This collection of articles is intended for process engineers, and scenician and research personnel engaged in the working of setals.  OVERAGE: Problems concerning the most effective application of electric-opsark schining.  All thurs developments in the field of electric-opsark actioning and its autocarion and industry are reviewed. Actining and its autocarion in industry are reviewed. Actining and its autocarion in industry, and the equipment involved is deteriors. The production characteristic of its described. The relationship between the effect of activity and activity man and into a mid the production characteristic of electric effect. Activity act activities of materials with a 20 to 30 marganed for the querialman cutting of materials with a 20 to 30 marganed for the querialman cutting of materials with a 20 to 30 marganed for the querialman cutting of materials with a 20 to 30 marganed for the querialman cutting are anticoned. There is all its algory and version. No resonablide are anticoned. There is all its algory and the cutting Elements of Migh-Carbon-Alloy Blanking and Alloys a	Elektrolakrovaya obrobotia menalov (Electric-Sank F. Mchining of Metals) no. 2, Mesoway Indoo M. SSEM, 1950. 262 p. Erruta Petals no. 2, Mesoway Indoo M. SSEM, 1950. 262 p. Erruta Baito instred. (Series: Its: Trudy) 6,000 copies printed.  Sponsoring Agency: Akademiya nauk SSEM.  Rasp. Ed.; B. R. Isazarnto; Ed. of Publishing House: S. M. Moyehes; Fech. Ed.: A. P. Guneva.  Magor Est. Fins collection of articles is intended for process engineers, and technical and research personnel engaged in the working of metals.  COVTANCE: Problems concerning the most effective application of alectric-spark methods in Industry are reviewed. Possible pheuve wethooks in the Itals of electric-spark actining and its automation in Industry, the destrict-spark actining and its automation in Industry, the destrict-spark method is adestric-spark pulses and two protess is examined, and meanwhise effect the spark method is adestric-spark pulses and the protess is examined, and meanwhise effect the spark method is adestric-spark pulses and the protess is examined, and meanwhise in the Industry protection characteristics of alectric-spark method is adestric-spark pulses and the protess in the Industry in the Conference of the protess in the Industry producing a finished part. So active comparing a finished part. So active characteristics of the protess in the Industry producing a finished part. So active characteristics of the Industry in the Industry	Anadomy's nauk SSSR. Tentral lays nauthon-issledovitel'skyl haboratorys elektricheide obsubotki materialov.  Zaktrolistwys obsubotka metallov (Electic-Spark Azalining of Metals) no. 2 Meacow, Tad-vo MK SSSR, 1950. 262 p. Ernta slip inserted. (Saries: Tatvo NK SSSR, 1950. 262 p. Ernta slip inserted. (Saries: Tatvo NK SSSR, 1950. 262 p. Ernta slip inserted. (Saries: Tatvo NK SSSR, 1950. 262 p. Ernta slip inserted. (Saries: Tatvo NK SSSR, 1950. 262 p. Ernta slip inserted. (Saries: Tatvo NK SSSR, 1950. 262 p. Ernta fact. Ki: A. P. Unieva.  WORNOSE: Mis collection of articles is intended for process sngi- negra and technical and research personnel engaged in the work- ing of the states.  WORNOSE: Problems and industry, the technical-sconemic offor- ing the same utilisation in industry, the technical-sconemic offor- tivesses of the process is examined, and the quipment involved is described. The relational production characteristics (pro- described-spark polices and the production characterists (pro- described-spark polices and the production characterists (pro- described-spark polices and the process of the second school of the relational training, and surface quality) of alectric- described, machining is erealished. An electric-spark machini- static static spark machining second school of the curviling of the carrier opens.  Salicyth, B. M. and I. P. Korpoova. Salecting Optimus and lities. These references accompary industry and articles.  Alloys  Alloys and Y. M. The Electric-Spark Mothod Applied to Threading 125  Onlawyon, W. R., and M. K. Foteyev, Electric-Spark Mothod  Electric-Spark Method Salvier production Tools by the Roctorest for School of Method Salvier of Sa	rentral 'naya nauchno-issledovatcl'akaya checkoy obrabotki materialov.  the metallov (Electric-Spark Machining of ow, Izd-vo AN SSSR, 1950. 262 p. Errata ries: Its: Trudy) 6,000 copies printed.  renko; Ed. of Publishing House: S. M. Moyzhes;  renko; Ed. of Publishing House: S. M. Moyzhes;  serva.  I and research personnel engaged in the Work-  l and research personnel engaged in the Work-  l and research personnel engaged in the Work-  are discussed, and, for instances of its  are discussed, and the equipment involved of in industry, the technical-copark Eachining  are discussed, and the equipment involved cas is examined, and the equipment involved cas is examined, and the equipment involved of smid nidustry, and surface quality of electric-  cas and the production characteristis (pro-  cas and the production characterist (pro-  cas and the production characteristis (pro-  cas and the production characteristis (pro-  cas and the production characteristic (pro-  cas and the production characteris
nectric-Spark Lapping Used on Flour-Mill nufacture of Stainless and High-Manganero Electric-Spark Method and 3. I. Komanar. Electric-Spark Mark-d Parts			8	Zajotykh, B. M., and I. F. Korobova. Selecting Optimum Rejims for Electric-Spark Fachining of Sintered-Carbide Alloys Alloys Alloys Alloys Alloys Alloys Alloy Servand M. K. Foteyev, Electric-Spark Ma- chining of the Catting Elements of High-Carbon-Alloy Blanking Anch-Die Sers Quaryan, E. K. The Electric-Spark Mothod Applied to Threading 122 Englodovy Ye. Y. Manufacture of Precision Tools by the Referic-Spark Method Anchanged Machine Paris by Using a Frogram-Controlled Referic-Spark Machine Paris by Using a Frogram-Controlled Referic-Spark Machine Paris by Using a Frogram-Controlled Referic-Spark Machine Paris by Using a Frogram-Controlled	OWERING: Probless concerning the most effective application or electric-spark machining future developments in the field of electric-spark machining and its automation are discussed, and, for instance of its present utilization in industry, the technical-economic effectiveness of the process is examined, and the equipment involved tiveness of the process is examined, and the equipment involved is described. The relationship between the parameters of alectric-spark machining is established. An electric-spark machining accuracy, and aurise equality) of electric-spark machining is established. An electric-spark machining accuracy, and surface quality) of electric-spark machining accuracy, and surface quality) of electric-spark machining are also treated. No pursonalities are sonitioned. There are also treated. No pursonalities are sonitioned. Therefore and I Italian. These references accompany individual articles. Alloys and I Italian. These references accompany individual articles. Chetwarkoy, S. S., and M. K. Fotegev. Electric-Spark Maching Flements of Migh-Carbon-Alloy Blanking Online, Williams of the Cutting Elements of Migh-Carbon-Alloy Blanking Unit Electric-Spark Manufacture of Complex-Chaped Machine Parts of Uniting a Program-Controlled Ingettric-Spark Machine Parts of Uniting a Program-Controlled Ingettric-Spark Machine Parts of Uniting a Program-Controlled Ingettric-Spark Machine Parts of Uniting a Program-Controlled.	FURPOSE: This collection of articles is intended for process engineers, and technical and research parsonal engaged in the working of metrs, and technical and research parsonal engaged in the working set alectric-park methods in industry are reviewed. Possible placented engaged and its automation are discussed, and, for instance of its process is examined, and the couppaint involved in the automation are discussed, and, for instance of its process of the process is examined, and the equipment involved is described. The relationship between the pursuant involved sleetric-park methods as examined, and the equipment involved sleetric-park methods as examined, and the production characteristics (producting actuacy, and suffer equipment involved spark and in a established. The electric-park method is a shanned for the curvilinear cutting of materials with a 20 to 30 merror thick wire, this directly producting a finished part. See its and its are also trackly. No presentablished are mentioned. There is and italian. These references accompany individual articles. And italian. These references accompany individual articles. Alloys for Electric-Spark Manning of the Cutting Elements of Mich-Carbon-Alloy Blanking Anterbalogous for Electric-Spark Manning of the Cutting Elements of Mich-Carbon-Alloy Blanking Anterbalogous, Ye. W. Manufacture of Precision Tools by the Medicine Parts of Varufacture of Medicine Parts of Varufacture of Electric-Spark Manning Value of Medicine Parts of Varufacture of Rectric-Spark Manning Value of Medicine Parts of Varufacture of Rectric-Spark Manning Value of Manufacture of Rectric-Spark Manning Value of Manufacture of Tretting Electric Spark Manning Value of Manufacture of Rectric-Spark Manning Value of Manufacture of Manufactur	Resp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed.: A. P. Duseva.  PURPOSE: This collection of articles is intended for process engineers and technical and research personnel engaged in the working of metals.  CONTRINGE: Probless concerning the most effective application of electric-spark methods in industry are reviewed. Possible fulture developments in industry are reviewed. Possible and itse automation are discussed, and the application of the automation are discussed, and the application of industry, the technical-economic effective present utilization in industry, the technical-economic effective present utilization are discussed, and the applicant involved is described. The relationship devices the parameters of the process is examined, and the approxement involved is described. The relationship devices the parameters of the process is examined, and the parameters of the process is examined, and the parameters of the process is described. The relationship devices the parameters of the process is falsing of electric-spark method is advanced for the curvilinear cutting of materials with a 20 to 30 minno-bride wire, thus directly described part. Mon-Savist developments in the field of electric-spark method.  Property and I. P. And I. P. Moreoughits are annitioned. There is an interest of the Cutting Electric-Spark Method Applied to Threading 120 Munch-Die Sets  Adlaryan, E. M. The Electric-Spark Method Applied to Threading 120 Munch-Die Sets  Contaryan, M. M., and W. E. Mravehenko, Manufacture of Meteric-Spark Method  Contaryan, M. M., and W. E. Mravehenko, Manufacture of Meteric-Spark Method  Contaryan, M. M., and W. E. Mravehenko, Manufacture of Meteric-Spark Manchine Paris of Vising Westeric-Spark Manchine Vising Westeric of Vising Westeric Contaryan, M. M.	Elektrolskrowys obrobotts metallow (Electric-25pt. Ernth Refails) no. 2. Noscow. Ind-vo AN SSSS, 1950. 262 p. Ernth Belails) no. 2. Noscow. Ind-vo AN SSSS, 1950. 262 p. Ernth Bilt inserded. (Sacries: Its: Trudy) 6,000 copies printed. Sponsoring Agency: Anddemiya nauk SSSN.  Rap. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moythes; Feb. Ed.: A. P. Gusow. Ed. of Publishing House: S. M. Moythes; Feb. Ed.: A. P. Gusow. Ed. of Publishing House: S. M. Moythes; Feb. Ed.: A. P. Gusow. Ed. of Publishing House: S. M. Moythes; Feb. Ed.: A. P. Gusow. Ed. of Publishing House of Corporation of activities and technical and research personnel engaged in the work—ing of metals. In the field of electric-spark machining and the automation are discussed, and the equipment involved transmission and the scale of electric-spark machining and machining of the equipment in the field of electric-spark machining and an experience of the electric-spark machining and an experience of the electric-spark machining and an interpretation of the electric-spark machining and an interpretation of the electric-spark machining and an interpretation and a Talian. These references accompany intimum holds are also and a Talian. These references accompany intimum holds and an interpretation of the Cuting Electric-Spark Machining of the Cuting Electric-Spark Mathing and Alloys and Mathing of the Cuting Electric-Spark Mathing of the Cuting Electric-Spark Mathing and Mathing	Anadomiya nauk SSSR. Tentral'naya nauchno-isaledovatel'akkya Abboratoriya elektrinhesky bivabokik micrislov,  Eletrosiskovya obrobika medalov (Electris-Spark'Achining of Michia) noce.  Spinarica. (Saries: Its: Trudy) 6,000 copies printed.  Sponsoring Agency: Akademiya nauk SSSR.  Rasp. Ed.; B. R. Lazarnko; Ed. of Publishing House: S. M. Royches;  Fech. Ed.: P. Ouseva.  PURPOSE: This collection of articles is intended for process engineers. Ed.: P. Ouseva.  PURPOSE: This collection of articles is intended for process engineers. Ed.: P. Ouseva.  PURPOSE: This collection of articles is intended for process engineers. Ed.: P. Ouseva.  PURPOSE: This collection of articles is intended for process engineers. Ed.: P. Ouseva.  COVERAGE: Problems concerning the most effective application of alectric-spark miching and the autemation are discussed, and for instance of the present utilization in Industry are referred application of alectric-spark machining and surface qualification and industry has been been permanent of the present utilization in Industry. Par terminal-economic effectives and the during of the control of an autematical and surface dustry and the equipment involved is edecited. The substance of the process is examined, and surface qualified part of admitted for the curvilina discussing foliation and the equipment involved is exampled. The substance of the process of the control of the cont	rentralinaya nauchno-issledovatel'akaya checkoy obrabotki materialov.  the metallov (Electric-Spark Kuchining of object of Release of Electric-Spark Kuchining of object its: Trudy) 6,000 copies printed.  There its: Trudy) 6,000 copies printed.  The field of Publishing House: S. M. Moyzhes;  service Ed. of Publishing House: S. M. Moyzhes;  Laeva.  The field of Peterric-Spark Eachining  The in industry, the technical-scomonic effoc- oss in industry, the technical-scomonic effoc- oss in the field of and the equipment involved  The field of Production characteristics (pro- oss and the field of alactric-spark Machinic  The field of alactric-spark Machinic  W. K. Fotoyev, Electric-Spark Ma-  of No pursonalities are mentioned, Threading late  Thements of High-Carbon-Alloy Blanking  Lectric-Spark Mothod Applied to Threading late  Lectric-Spark Mothod Applied to Threading late  'Enements of Wigh-Carbon-Alloy Blanking  'Enements of Wigh a Program-Controlled  'Enris or Welley & Program-Controlled  'Enris or Welley & Program-Controlled  'Enris or Welley
, and B. N. Zolotykh. Selecting the for Electric-Spark Fachining of Mickel- i. Alloys lectric-Spark Lapping Used on Flour-Mill nufacture of Stainless and High-Manganese Electric-Spark Method and S. I. Komanar. Electric-Spark Mark- ed Parts			岁	Zolotykh, B. M., and I. F. Korobova. Selecting Optimum Regimes for Electric-Spark Fachining of Sintered-Carbide Allors Allors Allors Allors Chetwarks, S. S., and M. K. Foteyev, Electric-Spark Ma- chining of the Cutting Elements of High-Carbon-Alloy Blanking Punch-Die Sets Oularyan, E. K. The Electric-Spark Mothod Applied to Threading 142 Enclodnow, Ye. W. Manufacture of Precision Tools by the Rectric-Spark Method	coverage; revolues concerning the most effective application or electric-spark methods in industry are reviewed. Possible anderstreament in the field of electric-spark methods and for instance of the function of the fill of and its automation in industry, the technical-economic effectiveness of the process is examined, and the equipment involved transment of the present utilization in industry, the technical-economic effectiveness of the process is examined, and the equipment involved the descrit-spark pulses and the production characteristic of alcetric-spark machining is established. An electric-spark method is agark machining is established. An electric-spark method is agark machining the equipments in the filled of alcetric-spark method is an examend for the curvillines retribly producing a finished part. Non-Soviet developments in the filled of acterials with a 20 to advanced for the curvillines references accompany individual articles. These is a selectric and individual articles.  Zolotykh, B. M., and J. P. Korobova. Selectric Optimum Regisse for Electric-Spark Techning of the Cutting Elements of Migh-Carbon-Alloy Blanking and hings of the Cutting Elements of Migh-Carbon-Alloy Blanking and the Carbon and the Electric-Spark Machines and the Electric-Spark Machines and the Electric-Spark Machines and Electric-Spark Mach	PURPOSE: This collection of articles is intended for process engineers, and centals.  Ing of metals.  COVERAGE: Problems concerning the most effective application of slectric-spark methods in industry are reviewed. Possible allowers declored in the field of electric-spark machining and its automation are discussed, and for intaines of its present utilization in industry, the technical-scoromic effectiveness of the process is examined, and the caupment involved is described. The relationship between the parameters of a described. The relationship between the parameters of the process is examined, and aurise quilty) of electric dustrify, machining accuracy, and aurise quality) of electric agark machining accuracy, and surface quality of electric advanced for the curvilines of materials with a 20 to advanced for the curvilines are montioned. In a set all references in this directly producing a finished part. Non-Soviet developments in the filed of electric-spark machining are life trenders in its filed of electric-spark machining and litalian. These references accompany individual articles.  Zajotykh, B. M., and M. K. Fotogev. Electric-Spark Non-chining of the Cutting Elements of High-Carbon-Alloy Blanking Punch-Die Sets  Aulayan, E. K. The Electric-Spark Mathod Applied to Threading 120 Ricetric-Spark Method Applied to State Electric-Spark Method Electric-Spark Method Electric-Spark Method Electric-Spark Method Electric-Spark Method Applied to Threading 125 Ricetric-Spark Method Electric-Spark Method Electric-Spark Method Electric-Spark Method Electric-Spark Method Applied to Threading 125 Ricetric-Spark Method Electric-Spark	PURPOSE THE A. P. Queeva.  Fech. Ed.: A. P. Queeva.  FURPOSE THE COLLECTION of articles is intended for process engineers, and technical and research personnel engaged in the work- ing of metals.  ONVERAGE: Problems concerning the most effective application of alectric-park methods in industry are reviewed. Possible and its automation are discussed, and, for intended for process and its automation and industry, the technical-economic effec- inverse developments in the field of alectric-spark methods.  A described. The relationship between the pursent involved is described. The relationship between the pursent involved is described. The relationship between the pursent involved is described. The relationship between the pursent involved alectric-spark methodies and interprete quipment involved is described. The relationship between the pursent involved alectric-spark methodies accuracy, and suffer equipment involved is described. The relationship between the pursent of the con- alectric-spark methodies and the producing a finished so to advanced for the curvilinear cutting of materials with a 20 to 30 merror-thick wire, this direction method is and italian. These references accompany individual articles.  And it conting elements of Migh-Carbon-Alloy Blanking funder-Die Sets  Onlaryan, E. K. The Electric-Spark Morthod Applied to Threading 182  Relectric-Spark Kethod  Electric-Spark Kethod  Electric-Spark Method Applied to Threading Electric-Spark Method	Elektrolakravaya obrabokia menaliov (Elektric-Spork Monthing of Metals) no. 2. Noscos, Izd-vo MS SSSR, 1950-262 pp. Erran Metals) no. 2. Noscos, Izd-vo MS SSSR, 1950-262 pp. Erran Metals) no. 2. Noscos, Izd-vo MS SSSR, 1950-262 pp. Erran Izd-vo MS SSSR, 1950-262 pp. Erran Izd-vo MS SSSR, 1950-262 pp. MSP SSSR, 1950-262	Audomaya mauk SSSR. Teentral'maya mauchno-isajaledvatel'akaya laboratoriya elektricheniko obniobiki miterialov.  Elektrolakrovas obrobotu menaliov (Electric-Spark Arilluing of Retals) no. 2. Roseow, Idavo MX SSSR, 1950. 262 p. Ermin Spansoring Remory. Akademiya mauk SSSR,  Spansoring Remory. Akademiya nauk SSSR,  Resp. Ed.; B. R. Izazareko; Ed. of Publishing House: S. M. Moythes;  Fech. Ed.: A. P. Gusene,  Frech. Ed.: A. P. Gusene,  Frech. Ed.: A. P. Gusene,  OVYZANGE: Problems conceming the most effective application of enters, and teeming and research personnel engaged in the work- ing of metals.  OVYZANGE: Problems conceming the most effective application of enters, and teeming and research personnel engaged in the work- ing of metals.  OVYZANGE: Problems conceming the most effective application of enteries and teeming and descused, and for electric-spark metalning and its automotical in industry, the technica-eronic effec- present utilization in industry, the technica-eronic effec- present utilization in industry, the technica-eronic effec- present utilization in industry, and surface quippers  and tee automotic differences in the Protect of State of Lettric- ductivity, machining secured, and me equippers  and escribed. The spocess is a examined and the production entry of the control  advanced for the curval, and automity of clearing and intelline are annitoned  and i fallam. These wifers from a difficulties are annitoned  and i fallam. These references are annitoned and are list are and and are list of the curval and are listed are annitoned and are list of electric-Spark Archinals of Migh-Carbon-Alloy Blanking  Anning of the Cutting Electric-Spark Mothod Applied to Threading 142  Roledowy M. B. A. The Electric-Spark Mothod Applied to Threading 142  Roledowy For W. Montaure of Precision Tools by the  Roledowy Weaverload.  Rolectric-Spark Montauter of Precision Tools by the	The book Exploitation:  Sov/5289  The translation of the control o
Ad V. L. Kravohenko. Manufacture of Line Parts or Using a Program-Controlled Annug Unit and B. N. Zolotykh. Selecting the for Electric-Spark Machining of Nickel-fallospark Lapping Used on Plour-Mill lectric-Spark Lapping Used on Plour-Mill Mickels of Stainless and High-Manganere Electric-Spark Method and S. I. Komanar. Electric-Spark Mark-d Parts	7		1	Zolotykh, B. M., and I. F. Korobova. Selecting Optimum Recimes for Electric-Spark Fighthing of Sintered-Carbide Alloys Ghetverikov, S. S., and N. K. Foteyev, Electric-Spark Maching of the Cutting Elecents of High-Carbon-Alloy Blanking Nuch-Die Sets	coverance: Problems concerning the most effective Application or electric spark methods in industry are reviewed. Possible future developments in the field of electric-spark machining future developments in the field of electric-spark machining and its automation are discussed, and for instances of fisc. Instances of the process is examined, and the equipment involved is described. The relationship between the parameters of is described. The relationship between the parameters of sectric-spark pulsos and the production characteristics (production; as examining is established. An electric-spark method is equivalent in a set in the field of electric-spark method is advanced for the curvilined. We producing a finished part. Non-Soviet developments in the field of electric-spark machining are lail trained. No pursonalities are somitioned. There is all interest in the field of electric-spark machining in an electric-spark machining. Solotyth, B. M., and I. P. Korobova. Selecting Optimus Meimes for Electric-Spark Mandridual articles.  "Zolotyth, B. M., and I. P. Korobova. Selecting Optimus Meimes for Electric-Spark Mandridual articles. Alloys of the Cutting Elements of High-Carbon-Alloy Blanking chiling of the Carbon-Alloy Blanking chiling of the Carbon-Alloy Blanking chiling of the Carbon and	PURPOSE: This collection of articles is intended for process engineers, and estals.  Ing of metals.  COVERAGE: Problems concerning the most effective application of slectric-spark methods in industry are previewed. Possible present utilization are discussed, and, for instance of its present utilization in industry, the technical-economic effocing the most technical-economic effocing and the utilization in industry, the technical-economic effocing and sectric-spark matching the estimate of the process is examined, and the equipment involved is described. The relationship between the parameters of the process is examined, and the equipment involved is described. The relationship between the parameters of the effocing active for the curviling activity, and the equipment involved is advanced for the curviling activity of materials with a 20 to advanced for the curviling activity of materials with a 20 to advanced for the curviling activity of materials with a 20 to advanced for the curviling activity of materials with a 20 to advanced for the curviling activity of production in the real in the fall of electric-spark machinems and ifalls. These references accompany individual articles and individuals articles.  Zolotyth, B. M., and I. P. Korobova. Selecting Optimum Regimes for Electric-Spark Fadenthing of Sintered-Carbide Alloys childing of the Cutting Elements of High-Carbon-Alloy Blanking land.	Resp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. N. Moythos; Tech. Ed.: A. P. Gussova.  Tech. Ed.: A. P. Gussova.  Ing of metals.  COVERAGE: Froblems concerning the most effective application of alectric-spark methods in industry are reviewed. Fossible future developments in the field of electric-spark metholisms.  And its automation are discussed, and, for instance of its present utilization in industry, the fectric-spark methining and stearth-spark purposes is examined, and the equipment involved is described. The relationship between the parmeters of the process is examined, and the equipment involved is described. The relationship between the parmeters of parameters of the process is examined. An electric-spark method is advanced for the curvilines of metric-spark method is advanced for the curvilines creately production chancies for electric-spark saids. Thus, thus directly production chancies in advanced for the curvilines directly productions of failands part. Non-Soviet developments in the field of electric-spark machinary and ilfallan. These references accompany individual articles.  Zolotyth, B. M., and I. P. Korobova. Selecting Optimum Regimes for Electric-Spark Manamed in Cartic-Spark Manamed in Cartic-Spark Manamed in Cartic Cartining of Sintered-Cartic Spark Manamed in Cartining of the Cartining Planking in Cartining of the Cartining of Migh-Carton-Alloy Blanking in Cartining of Migh-Carton-Alloy Stark Manamed Incomed	Elektrolakrovaya obrabotka metallov (Electric-Spark Machining Of Metals) no. 2. Mesowa, IZd-vo M. 8558, 1950. 262 p. Errata Blip inarted. (Series: IZs: Trudy) 0,000 copies printed.  Sponsoring Agency: Akademiya nauk S558.  Rep. Ed.: B. R. Iszarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed.: A. P. Quseva.  Fech. Ed.: B. R. Iszarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed.: A. P. Quseva.  Rep. Ed.: B. R. Iszarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed.: A. P. Quseva.  Rep. Ed.: B. R. Iszarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed.: A. P. Quseva.  Rep. Ed.: B. R. Iszarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed. of Ed. of Proposes and Lectric-spark machines in the field of electric-spark actions in the field of electric-spark actions in Industry are received. Possible and its automation in Industry, the technical-economic effortiveness of the process is examined, and the recommic effortiveness of the process is examined, and the recommic for a described. The relationship between the parameters of is advanced for the curvilines cutting of maceirist with a 20 to 30 mectarity machining accuracy, and suffer qualipment involved spark machining accuracy, and suffer qualipment involved spark machining accuracy, and suffer qualipment in the field of electric-spark machining accuracy, and suffer qualipment in the field of electric-spark machining accuracy, and suffer electrophy and suffer and a sea of the granted and interest accommic a first and incomming and illination. There is of the suffer that are anticoned. There is a sea of the process is and in the field of electric-spark Maloys and M. E. Poteyev, Electric-Spark M. Alloys	Anadomatya nauk SSSR. Trentralinaya nauchno-issledovatel'akaya laborateriya elektri checkoy obrabokik materillov.  Elektrolakrovya obrabokia metallov (Electric-Spark Fachling of Metals) no. 2. Moncow; Idavo AN SSSR, 1360. 662 pr. Erntn slip inserted. (Series: Its: Trudy) 6,000 copies printed.  Sponsoring Agency: Akademiya nauk SSSR.  Rasp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moyehes; Tech. Ed.: A. P. Ouseva.  Rasp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moyehes; Tech. Ed.: A. P. Ouseva.  Rosp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moyehes; Tech. Ed.: A. P. Ouseva.  Rosp. Ed.: B. R. Lazarenko; Ed. of Publishing House.  Rosp. Ed.: B. R. Lazarenko; Ed. of Publishing House.  Rosp. Ed.: B. R. Lazarenko; Ed. of Publishing House.  Rosp. Ed.: B. R. Lazarenko; Ed. of Publishing House.  Rosp. Ed.: B. R. Lazarenko; Ed. of Edetric-Spark Eachling Edetric-Spark Houses and the production of Possible Problems in the filed of Seteric-Spark Eachling Securacy, and autrece qualipment Involved tis described. The relational material particle of the forest process of the process and the production characteristics (productive, Machine Securacy, And autrece qualipment Involved tis described. Particle of Machine Securacy, And autrece quality of electric-Spark Machine Securacy, And autrece quality of electric-Spark Machine Securacy, And autrece quality of electric-Spark Machine Securacy, Production characteristics of the european Securacy of Machine Securacy, And autrece quality of electric-Spark Machine Securacy Production of Americal Securacy Production of There is a standard for the curvilinear cutting of Emerica-Spark Machine Securacy Process accompany individual articles.  And I Italian. These versuces accompany individual articles.  Rospetting of the Cutting Elements of Migh-Carbon-Alloy Blanking Phinism of the Cutting Elements of Migh-Carbon-Alloy Blanking Carbon-Alloy Securacy.	SE I BOOK EXPLOITATION:  SOW/5289  Checkoy obrabotki materialovatel'akaya checkoy obrabotki materialova  Standarialova & Cileterie-Spark Michining of  Okia metallov (Electrie-Spark Michining of  demiya nauk SSSR.  Trudy) 6,000 copies printed.  Tand research personnel engaged in the work—  I and research personnel engaged in the work—  An industry, are reviewed. Possable  In industry, the technical-copner acting of  In industry, the technical-connel effocuses is samined, and the permeters of the  An industry, the technical-connel effocuses is samined and the production characterise (pro-  essablished. An electric-spark method is  ethis directly production characteristics  Established. An electric-spark method of  No presonalities are mentioned. Bestrie  R Soviet. Of English, 10 French, 8 German,  ents in the field of electric-spark machine  R Soviet. Of English, 10 French, 8 German,  Engentis of High-Carbon-Alloy Blanking  I Elements of High-Carbon-Alloy Blanking  I Elements of High-Carbon-Alloy Blanking  I Elements of High-Carbon-Alloy Blanking  I I I I I I I I I I I I I I I I I I I
Manufacture of Precision Tools by the manufacture of Precision Tools by the mod for the manufacture of the mod for	2 1 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Zolotyth, B. M., and I. P. Korobova. Selecting Optimum Megimos for Electric-Spark Factoring of Sintered-Carbide 114 Alloys	coverage: Problems concerning the mast effective application or electric-spark methods in industry are reviewed. Possible states with a sector of the manual and the manual and the manual and the manual of the process is a mainted, and the equipment involved is described. The relationship between the parameters of alsectric-spark pulsas and the production characteristics of electric-spark pulsas and the production characteristics of alsectric-spark pulsas and and surface quality) of electric dustrity, machining acturacy, and surface quality) of electric spark machining is established. An electric-spark method is actural and surface quality of electric spark machining is established. An electric-spark method is actural the state of alselectric-spark method is not some and in the second of the state of the second is a second of a state of the second is and if all and tracted of persons and it is also tracted. No pursonalities are annitioned. There are limited to tracted of persons and italian. These references accompany individual articles and italian. These references accompany individual articles.  Zajotyth, B. M., and I. P. Korobova. Selecting Optimum second in a second of the second of	PURPOSE: This collection of articles is intended for process engineers, and etchnical and research personnel engaged in the working of metals.  COVERAGE: Problems concerning the most effective application of electric-spark methods in Industry are reviewed. Possible future developments in the field of electric-spark methods in present utilization in industry, the technical-economic effectiveness of the process is examined, and the equipment involved transactive the present utilization in industry, the technical-economic effectiveness that the present utilization in industry, the technical-economic effectiveness that the production characteristic of electric-spark methods. The relationship between the parameters of electric-spark and industry in a clusteristic electric-spark method is equal advanced for the environment and electric-spark method is equal accountable with a 20 to advanced for the environment and include an electric-spark menion in any light and electric-spark menion and illian. These references accompany individual articles and illian. These references accompany individual articles and illians and illians. Selecting Optimum Residence in the individual articles allows	Resp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. N. Woythos; Tech. Ed.: B. P. Guseva.  Tech. Ed.: A. P. Guseva.  PURPOSE: This collection of articles is intended for process engineers, and technical and research personnel engaged in the working of metals.  COVERAGE: Problems concerning the most effective application of electric-spark methods in industry are reviewed. Possible future developments in the field of electric-spark methods in for instances of five most the process is a examined, and the equipment involved is appeared twilization in industry; the technical-economic effortiveness of the process is acknowing and the equipment involved is absented the process is an examined, and the equipment involved alsectric-spark method and the production characteristics (production; and surface quality) of electric-spark method is extracted for the curvilinear cutting of materials with a 20 to advanced for the curvilinear cutting of materials with a 20 to advanced for the curvilinear cutting of materials with a 20 to advanced for the curvilinear cutting of materials with a 20 to advanced for the curvilinear cutting of materials with a 20 to advanced for the curvilinear cutting of materials with a 20 to advanced for the curvilinear cutting of materials and a 20 to advanced for the curvilinear materials. These references accompany individual articles are lighted and individual articles.  Zajotyth, B. M., and I. P. Korobova. Salecting Optimum fectives of the process accompany individual articles.	Elektrolakrovaya obrabotka metallov (Electric-Spark Fachlunng of Netals) no. 2. Nescow, Izd-vo AN SSSR, 1950. 262 p. Errata alta inserted. (Series: Ita: Trudy) 6,000 copies printed.  Sponsoring Agency: Akademiya nauk SSSR.  Rasp, Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moythas; fach, Ed.: A. P. Guseva.  Fach, Ed.: A. P. Guseva.  PURPOSE: This collection of articles is intended for process engineers, and technical and research personnel engaged in the working of metals.  COVERAGE: Probless concerning the most effective application of alectric-spark methods in industry are reviewed. Possible future developments in the field of electric-spark methods in present utilization in industry, the technical-economic effectiveness of the process is examined, and the equipment involved tiveness of the process is examined, and the equipment involved tiveness of the process is examined, and the equipment involved tiveness of the process is examined, and article capark method is equality of alectric-spark machining securacy. And surface quality) of alectric-spark machining actuator, and surface quality) of alectric-spark machining actuator, and surface quality of alectric-spark machining actuator, and surface quality) of alectric-spark machining actuator, and surface quality of alectric-spark machining actuator, and surface quality of alectric-spark machining actuator, and surface quality. Mon-Soviet developments in the filling arterials and a 20 to alectric-spark machining are annianced are large are annianced. There are larged and arterial and articles.  Zalotyth, B. M., and I. P. Korobova. Selecting Optimum Regimes for Electric-Spark Tachining of Sintered-Carbide Sarbides.	Adadomatya nauk SSSR. Teentralinaya nauchno-issledovatel'akaya Laboratoriya elektricheskoy obrabotki materialov.  Elektroiskrevya oprabotka metallov (Electric-Spark Pachining of Metala) no. 2. Moscow, Ita: Trudy) 6,000 copies printed.  Sponsoring Agency: Akademiya nauk SSSR. 1950. 262 p. Errnt alip inserted. (Saries: Its: Trudy) 6,000 copies printed.  Sponsoring Agency: Akademiya nauk SSSR.  Rasp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. M. Moythes; Tech. Ed.: A. P. Quseva.  Fech. Ed.: A. P. Quseva.  WIROSE: Whis collection of articles is intended for process engineers, and technical and research personnel engaged in the work- ang of metals.  COVERAGE: Problems concerning the most effective application of alcertic-park methods in industry are reviewed. Possible future developments in the field of alcetric-spark actions in industry are reviewed. Possible future developments in the field of alcetric-spark methodise actuacy, and sufface qualifies (pro- alcetric-park pulses and the production characteristis (pro- alcetric-park pulses and the production characterists with a 20 to apark machining accuracy, and sufface quality of electric- spark machining accuracy, and sufface quality of electric-park methodises and the production characterists with a 20 to apark machining accuracy, and sufface quality of electric-spark method is established. An electric-spark method is established.  Son defented for the curvilinear cutting of macerials and incircing as of its accardal with a setablished.  Son decine for the curvilinear cutting of macerial and alterial articles.  And all the aller and the production characterists with a 20 to advanced for the curvilinear cutting of macerial and alterial articles.  Sologyth, B. M., and I. P. Morobova. Selecting Optimum  Mosco Company and Carles of Sintered Carbide  Sologyth, B. M., and I. P. Morobova. Selecting Optimum  Milanay Macerial and Macerial	The book Exploiration Sov/5289  The translation of Electric-Spark Machinang of Sov, Ital-vo AN SSSN, 1950. 262 p. Errata clear Ital Trudy) 6,000 copies printed.  The metallow (Electric-Spark Machinang of Sov, Ital-vo AN SSSN, 1950. 262 p. Errata clear Ital Trudy) 6,000 copies printed.  The standard of Sos Copies printed.  The standard of Sos Copies of Sov Copies o

0111.1

5/196/61/000/010/034/037 E194/E155

**AUTHORS**:

Zolotykh, B.N., and Korobova, I.P.

TITLE:

Selection of optimum conditions for electric spark

machining of cermets

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1961, 42-43, abstract 10K 244. (Tr. Tsentr. n.-i. labor. elektr. obrabotki materialov AN SSSR, no.2, 1960, 114-119)

In a number of articles with a manufacturing slant it TEXT: has been shown that in some cases a defective layer with a network of microcracks is formed on the surface of hard alloys during electric spark-machining. Investigations of the relationship between the amount of erosion of certain metallo-ceramic compositions and the impulse parameters (duration and energy), and also of the relationship between the nature and amount of defective layer and these parameters, led to the following a) For good surface finish without defects the best range of impulse parameters for machining metallo-ceramic alloys is an impulse duration less than 10 microseconds and an Card 1/2

SHOGAM, S.M.; TOMICHEVA, M.V.; LEZINA, T.A.; SUKHANOVA, Ye.N.; KOROBOVA, I.V.;

Introducing the kinetic method of determining gamma-isomers of hexa-chlorocyclohexane in dusts of hexachlorocyclohexane. [Trudy] NIUIF no.165:52-62 59. (MIRA 13:8)

1. Predpriyatiye khimicheskoy promyshlennosti.
(Cyclohexane)

.KOROBOVA, K.I., SHAROV, M.G.; SHVETS, A.V.

Introducing the manufacture of percale on automatic looms. Tekst. prom. 24 no.2:32-33 F '64. (MIRA 17:3)

1. Glavnyy inzh. Novo-Tkatskoy fabriki Glukhovskogo khlopchatobumazhnogo kombinata (for Korobova). 2. Zaveduyushchiy tkatskim
proizvodstvom Novo-Tkatskoy fabriki Glukhovskogo khlopchatobumazhnogo kombinata (for Sharov). 3. Nachal'nik tkatskogo tsekha
Novo-Tkatskoy fabriki Glukhovskogo khlopchatobumazhnogo kombinata
(for Shvets).

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-

#### CIA-RDP86-00513R000824810005-3

L 07129-67 ACL NR: AV7001060

SOURCE CODE: UR/9012/66/000/147/0002/0002

AUTHOR: Korobova, L. (News correspondent)

17

ORG: none

3

TITIE: Tunnels of Nurek

SOURCE: Pravda, 27May66, p. 2, col. 5-8

TOPIC TAGS: hydroelectric power plant, civil engineering

ABSTRACT: At Nurek, the river Vakhsh has been diverted through a 1,628-moter tunnel, bypassing a narrow canyon. A second tunnel is under construction on the opposite bank When the third and fourth tunnels are constructed, the first will be plugged with concrete. The entire construction is part of the construction of a hydroelectric station but will include an overflow tunnel capable of carrying water beyond the station in case of a flood with a magnitude so great that the theory of probability indicates it should occur only one time in 10,000 years. 

[JPRS: 36,501]

SUB CODE: 13, 10 / SUBM DATE: none

Card 1/120

IVANOV, P.K., prof.; KOROBOVA, L.I., kand. sel'khoz. nauk; LEONOVA, T.S., red.; LEVINA, L.G., tekhn. red.

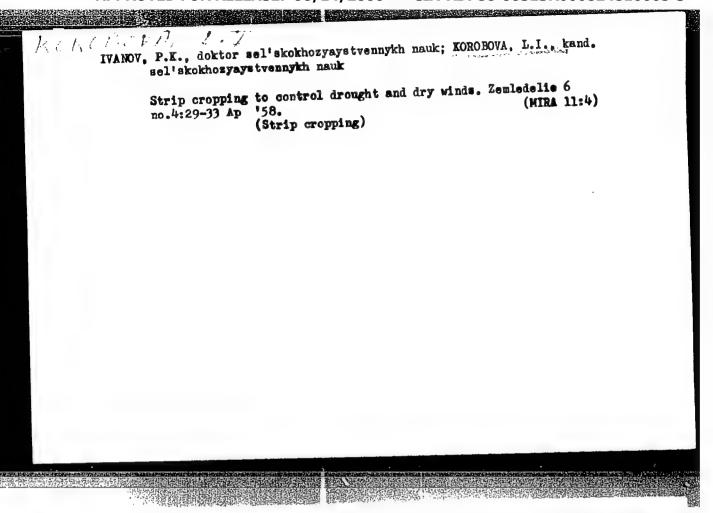
[Windbreak strips in the control of drought and sirocco-like winds]

Kulismye posevy v bor'be s zasukhoi i sukhoveismi. Moskva, Tgd-vo

(MIRA 14:12)

M-va sel'. khoz., 1960. 21 p.

(Windbreaks, shelterbelts, etc.)



LIVSHITS, I.A.; KOROBOVA, L.M.

Polymerization of 2-ethyl-1, 3-butadiene. Vysokom.soed. 3 no.6:
(MIRA 14:6)
891-897 Je '61.

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka.
(Butadiene) (Polymerization)

これでは、これではなるのではあるというないというないというないないないない。

LIVSHITS, I.A.; REYKH, V.N.; KOROBOVA, L.M.; MIRONYUK, V.P.; NERUSH, K.U.; STEPANOVA, V.I.

Copolymers of ethylene and propylene containing unsaturated bonds. Kauch. i rez. 24 no.11:3-5 '65. (HIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni S.V. Lebedeva.

AUTHORS:

Livshits, I. A., Korobova, L. E.

507/20-121-3-22/47

TITLE:

Polymerization of Higher Diolefines (Polimerizatsiya vysshikh .

diyenovykh uglevodorodov)

FURIUTICAL:

Toklady Akademii nauk SSSR, 1958, Vol. 121, Nr 3, pp. 474-476

(USSR)

ABSTRACT:

In recent years in the USSR and the USA (SShA) isoprene polymers were synthesized which are closer to natural rubber then other types of artificial rubber that had been known up to that time (Refs 1-5). It was necessary to clarify inhowfor the high stability connected with a high elasticity which characterizes vulcanizates of natural rubber is a characteristic fecture of the polymers of other diolefines. For this purpose polymers of a) 2-methyl pentadiene-1,5, of b) 2-ethyl butadiene-1,3 and of c) 2-isopropyl butadiene-1,3 were synthesized. The formation of monomers is briefly described (Refs 6, 7, 8) and their constants are mentioned. Metallic lithium was used for the polymerization. The reaction took place at 50-100.

Card 1/3

table 1 the polymerization of the monomers b) and c) proceeds

Polymerization of Higher Diolerines

SOV/20-121-3-22/47

PRESENTED:

March 24, 1958, by V. A. Kargin, Hember, Academy of Sciences,

SUBMITTED:

March 22, 1958

Card 3/3

30704-66 EWT(m)/EWP(j)/T RPL RM/WW ACC NRI AP5028898 SOURCE CODE: UR/0138/65/000/011/0003/0005 AUTHOR: Livshits, I. A.; Reykh, V. N.; Korobova, L. M.; Mironyuk, V. P.; Nerush, ORG: All-Union Scientific Research Institute of Synthetic Rubber im. S. V. Lebedev (Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka) TITLE: Ethylene-propylene copolymers containing unsaturated bonds SOURCE: Kauchuk i rezina, no. 11, 1965, 3-5 TOPIC TAGS: ethylene, propylene, copolymer, vulcanization ABSTRACT: The article describes the physicomechanical properties of the SKEPT-1 copolymers, which are ternary copolymers of ethylene, propylene, and an unconjugated diene, and have a small quantity of double bonds. The influence of vulcanization time and degree of unsaturation of copolymers, fillers, and Defo toughness on the physicomechanical properties of SKEPT-11 vulcanizates was studied. The properties depend on the composition of the copolymers: as the content of propylene linkages rises from 35 to 41 mole %, the tensile strength and elasticity of the vulcanizates decrease. Because of the valuable physicomechanical properties of their blackextended vulcanizates, the SKEPT-1 copolymers are of great interest for practical applications in the rubber, tire, and other industries. Orig. art. has: 2 figures SUB CODE: 07, 11 / SUBH DATE: none / ORIG REF: 003 / OTH REF: 004 IDC: 678.742.2-139.004.12

11. 2211 De 2209

5/190/61/003/006/014/019 B110B208

AUTHORS:

Livshits, I. A., Korobova, L. M.

TITLE:

Polymerization of 2-ethyl butadiene-1,3

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 6, 1961, 891 -

TEXT: The present study deals with the influence of some initiators on rate and properties of polyethyl butadienes, and with the effect of the polymerization temperature on their structure and properties. The monomer freed from oxygen traces was kept over lithium butyl at -20°C for 20 min and then polymerized in hexane (ratio hexane/monomers = 80/20 parts by volume) at 0, 20, 50 and 100°C. When studying the influence of the polymerization temperature upon the polymer properties the ratio lithium butyl / monomer = 1: 1000, when testing the physico - mechanical characteristics, 1: 4000. The following was determined: 1) intrinsic viscosity at 25°C in benzene by Ostwald viscosimeter; 2) molecular

Card 1/9

Polymerization of ...

S/190/61/003/006/014/019 B110/B208

weight by means of a ~ 5 ml glass osmometer with a diaphragm of denitrated nitrocellulose (pore size 1.53 - 2.7 mm) and benzene as solvent according to: M = RT/ (P/c) (> +0; 5) unsaturatedness of the polymers according to T. M. Kolthoff and T. S. Lee (Ref. 6: J. Polymer Sci., 3, 66, 1948); the number of links bound in 1,2 and 3.4 position was determined from the number of — CH=CH2 and -CR=CH2 groups according to M. P. Burgova, A. N. Korotkov (Ref. 7: Izv. AN SSSR, ser. fiz... 14, 452, 1950). 2-ethyl with dispersed lithium, in hexane solution with a catalyst mixture thium isoprene (first synthesized by G. N. Petrov) as initiator (Table 1). talyst = 4,000: 1. The physico-mechanical characteristics were studied on microsamples. The unfilled vulcanization mixture was prepared according to the formula for polyisoprene (Ref. 8: S.S. Subbotin, V. V. Samoletova, A. K. Znamenskaya: Khimich. prom-st. 1956, no. 7, 21). According to Table 1, the physico - mechanical properties are not changed by a

Card 2/9

Polymerization of ...

S/190/61/003/006/014/019 B110/B208

slight increase of the length of the alkyl radical (from  $CH_3$  to  $C_2H_5$ ), higher increase (to C4H9) decreases the strength of unfilled mixtures. According to Table 2, a termperature rise from 0 to 100°C only little affects intrinsic viscosity and molecular weight. Temperature fall from 100°C to 0°C prolongs the reaction time from some minutes to 120 hr. The rubbers were quantitatively tested by means of the absorption band 6114 cm<sup>-1</sup> (vinyl band), using a diffraction grating with 600 lines/mm. The sum of the links in 1,2 and 3,4 position was determined by means of infrared spectroscopy in the range of C-H vibrations in the first overtone. According to Table 3 a rise of the polymerization temperature of 2-ethyl butadiene-1,3 in the presence of lithium butyl in hexane from 0 to 100°C nearly doubles the links. Similar conditions are found in the polymerization of isoprene and 2-butyl butadiene-1,3. The same rule applies to different methods of polymerization: Increase of the number of links with rise in temperature. The spectra of polyethyl budadiene obtained on /K(-11 (IKS-11) spectrograph disclosed that the polymers obtained by

Card 3/9

# APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"

Polymerization of ...

S/190/61/003/006/014/019 B110/B208

polymerization of 2-ethyl butadiene-1,3 with lithium butyl contain no links bound in 1,2 position. There are 2 figures, 4 tables and 13 references: 7 Soviet-bloc and 6 non-Soviet-bloc The three most recent references to English-language publications read as follows: Ref. 9: C. S. Marvel, L. R. Williams, H. E. Baumgarten, J. Polymer Sci., 4,583, 1949. Ref. 12: R. S. Stearns, L. E. Forman, J. Polymer Sci., 41, 381, 1959, Ref 13: I. Kuntz, A. Gerber, J. Polymer Sci., 42, 299, 1960.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskogo kautchuka (Scientific Research Institute of Synthetic Rubber)

SUBMITTED: August 4, 1960

KOHOBOVA, L.M.; LIVSHITS, I.A.

2-n-Butyl- and 2-n-propyl-1,3-butadienes. Zhur. ob. khim. 34 no. 10:3419-3421 0 '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka imeni S.V. Lebedeva.

KOROBOVA, L. S.

Dissertation defended for the degree of Candidate of Philological Sciences at the Institute of Linguistics

"Observations on Sentence Structure in the German Language at the Beginning of the XVI Century(From Materials of the Works of Thomas Muncher)."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

I\_\_30985-66 EWT(m)/EWP(j)/T WW/JW/JWD/WE/GS/RM RPL ACC NRI ·AT6004591 SOURCE CODE: UR/0000/65/000/000/0166/0172 AUTHOR: Il'in, V. K.; Korobova, M. N.; Finyagin, A. P.; Shakhov, Ye. A. 61 ORG: none B+1 TITLE: Combustion of fuels containing organic phosphorus compounds SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Novyye metody szhiganiya topliv i voprosy teorii goreniya (New methods in the combustion of fuels and problems in the theory of combustion). Moscow, Izd-vo Nauka, 1965, 166-172 TOPIC TAGS: combustion, phosphorus, phosphorus compound ABSTRACT: The conditions were studied under which the combustion of a hydrocarbon fuel containing an organic phosphorus compound yields a maximum of P4010. The experiments were conducted by analyzing the combustion products obtained with a hydrocarbon fuel containing either 9 or 30% phosphoric acid ester. A combustion chamber equipped with a fuel atomizer and a scrubber for the retention of combustion products was used. The experiments showed that the highest yield is obtained at an air excess factor of 1.2-1.5. The thermodynamics of reactions at various temperatures are discussed. experiments are of interest for the combustion of compounds containing phosphorus and for the new methods used in phosphoric acid production. Orig art. has: 3 figures. SUB CODE SUBM DATE: 09Sep65/ ORIG REF: 004/ OTH REF: 003/ ATD PRESS:4/9

POKPOVSKAYA, Ye., arkhitektor: MOPOSOVA, M. arkhitektor

New types of storahouses for polutory, frukts and vegotables.

Ekaper. proekt. no.5129-34 %.

(Mink 18 9)

Universal storehouse for vegetables and fruit. Sel'.
stroi. no.10:12-13 0 '62. (MIRA 15:11)
(Vegetables—Storage) (Fruit—Storage)

LAPOTYSHKIN, N.M.; KOROBOVA, N.A.; BARANOVA, N.A.

Properties of high silicon electrical steel prepared by continuous casting. Biul. TSIICHM no.2:42-44 '61. (MIRA 14:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Lapotyshkin, Korobova). 2. Ural'skiy institut chernykh metallov (for Baranova).

(Steel--Electric properties)

LAPOTYSHKIN, N.M., kand.tekhn.nauk; MIRONOV, L.V., kand.tekhn.nauk; KOROBOYA, N.A., inzh.; BARANOVA, N.A., inzh.; BELYAKOV, A.I., inzh.

Structure of cold-rolled transformer steel. Metalloved. i term. obr. met. no.12:26-29 D '62. (MIRA 16:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii, Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov i Novosibirskiy metallurgicheskiy savod.

(Steel--Magnetic properties)

ITSKOVICH, G.M.; MIKOLAYEV, N.A.; AKIMOVA, Ye.I.; KOROBOVA, N.A.; PRAVDINA,

T.E.; KAMYSHEVA, L.P.

Characteristics of continuous transformer steel ingots. Stal' 23 no.7:
643-648 Jl '63.

(Steel ingots) (Continuous casting)

(MIRA 16:9)

ORKIN, Grigoriy Aleksandrovich; MYAGKOV, M.M., red.; KCROBOVA, N.D., tekhn. red.

[Control of volunteers over the work of public dining rooms]
Obshchestvennyi kontrol' za rabotoi stolovykh. Moskva,
Profizdat, 1963. 77 p. (Bibliotechka profsoiuznogo aktivista, no.11(59))

(MIRA 16:10)

(Trade unions-Officers) (Restaurant management)

KOROBOVA, N.F.

BLLERN, S.S. (Kazan'); TROYEPOL'SKIY, V.I. (Kazan'); MURAV'YEV, I.S. (Kazan'); IVANOV, Ye.Ye. (Kazan'); KOROBOVA, N.F. (Kazan'); MALYSHEVA, O.N. (Kazan'); CHURINA, N.P. (Kazan')

Stratigraphy and facies structure of the Devonian in the Tatar A.S.S.R. Uch.zap.Kas.un. 115 no.10:85-88 '55. (MLRA 10:5) (Tatar A.S.S.R.--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824810005-3"